

# FABRIMEX

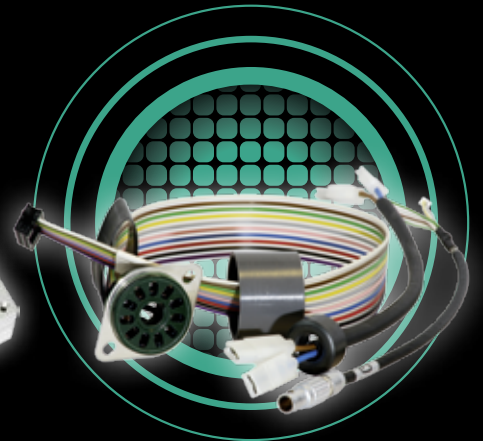
the company you trust



Standard-Produkte



Spezial-Produkte



Cabling-Systeme

Gültig ab November 2015

[www.fabrimex.com](http://www.fabrimex.com)

# Stromversorgungen – der heimliche Star im Alltag

Auch ohne Award oder Designerpreis ist die Stromversorgung der alltägliche Star im privaten und im industriellen Umfeld. Ganz unauffällig und selbstverständlich verrichtet sie ihre Aufgabe, nämlich sämtliche Bereiche des modernen Lebens konstant mit Strom zu versorgen. Fakt ist: Die hohe Zuverlässigkeit der Stromversorgung entscheidet über die verlässliche Verfügbarkeit komplexer Systeme.

Seit vielen Jahren ist es zugleich Antrieb und Leidenschaft von Fabrimex, die Stromversorgung ständig weiterentwickeln und zu perfektionieren. Für uns sind Stromversorgungen das Herzstück aller Stromadern. Doch was macht eine gute Stromversorgung aus und welches sind die Merkmale eines guten Brands?

Das technologische Niveau heutiger Stromversorgungen ist allgemein gut. Vielmehr sind es deshalb die verschiedenen Entwicklungen, die den entscheidenden Unterschied ausmachen: die kompakte Bauweise (Gewicht, Grösse), der Wirkungsgrad (ökonomisch, ökologisch) und eben die Zuverlässigkeit (hohe Betriebsdauer).

Wir sind stolz auf unsere Produkte und unser langjähriges Know-how. Und zwar so sehr, dass wir eine 3-5-jährige Garantie auf sämtliche Standard-Produkte abgeben. Vertrauen auch Sie uns... **Fabrimex – the company you trust!**



**Andreas Rüegg**  
Managing Director



## Global denken – lokal handeln

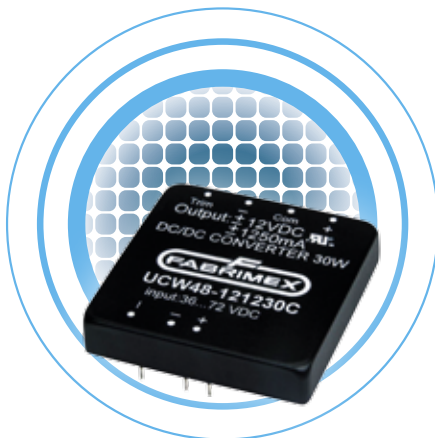
Fabrimex ist ein Schweizer Hersteller und Händler von DC/DC-Wandlern, DC/DC-Reglern und AC/DC-Netzteilen für die Industrie im kleinen bis mittleren Leistungsbereich. Der Schwerpunkt liegt bei 1 bis 600 Watt. Wir beliefern Kunden aus den Segmenten Automotive, Transport, Kommunikation, Konsumgüter, Labor und Medizin. Typische Anwendungen sind Kontroll- und Überwachungssysteme, tragbare Instrumente und Datenverarbeitungssysteme. Mit einem weltweiten Vertriebsnetz und langjährigen Partnerschaften sind wir auch im internationalen Umfeld aktiv.

In der industriellen Elektronik haben wir uns bereits seit den 70er-Jahren einen ausgezeichneten Namen erarbeitet. Unser Traditionsunternehmen entwickelt und produziert seit 1977 selbst. Wir kennen die Bedürfnisse unserer Kunden genau und wissen, dass es für eine maximale Arbeitsleistung eine optimale Stromversorgung braucht, die über einen möglichst langen Zeitraum lückenlos funktioniert. Und selbstverständlich entsprechen all unsere Produkte den internationalen Normen und Standards in puncto Sicherheit und EMV.

Global denken – lokal handeln. Mit unserem weltweiten Vertriebsnetz und jahrzehntelangen Verbindungen in Fernost, gepaart mit unserer lokalen Produktion und einer verwurzelten R&D mit Spass an technischen Herausforderungen, sind wir auch für unseren Kunden ein verlässlicher Partner.

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**Standard-Produkte**



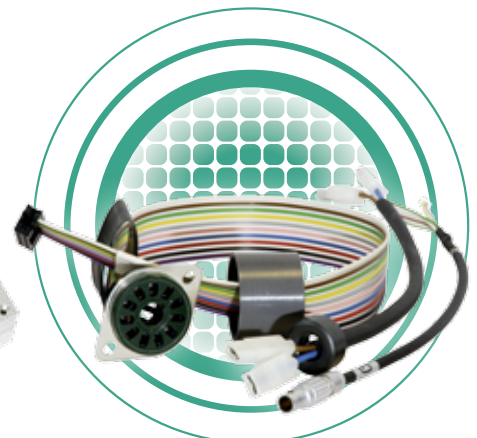
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# Standard-Produkte

## Mit Garantie erfolgreich im Einsatz

Unsere ausgereiften Standard-Produkte haben sich im langjährigen Einsatz schon zigtausendfach bewährt und sind deshalb ausserordentlich beliebt.

- DC / DC-Converter
- AC / DC-Power Supplies

Wir beliefern Kunden aus den Segmenten Automotive, Transport, Kommunikation, Konsumgüter, Labor, Medizin, Aerospace und Defence. Typische Anwendungen sind beispielsweise Kontroll- und Überwachungssysteme, tragbare Instrumente oder Datenverarbeitungssysteme. Selbstverständlich entsprechen unsere Produkte den internationalen Normen und Standards in den Bereichen Sicherheit und EMV.

Fabrimex bietet auch ein umfangreiches Sortiment an LED-Driver, Power Supplies und DALI-Controller an.



Dank ihrer hohen Zuverlässigkeit gewähren wir auf sämtliche Standards eine **Garantie von 3 bis 5 Jahren.**

## IHRE VORTEILE ALS UNSER KUNDE

### Umfassend

Als Schweizer Hersteller und Händler von DC/DC Wandlern, DC/DC Reglern und AC/DC Netzteilen bietet Fabrimex eine umfassende Produktpalette:

- DC / DC-Converter Regulatet
- DC / DC-Converter Unregulatet
- DC / DC-Converter Non isolatet
- DC / DC Vehicle Converter
- Programmable
- High voltage
- AC / DC Adapter
- AC / DC ATX
- AC / DC ATX medical
- AC / DC Power Supplies Desktop
- AC / DC Power Supplies Desktop Medical
- AC / DC Power Supplies Enclosed
- AC / DC Power Supplies Open Frame
- AC / DC Power Supplies Open Frame Medical
- AC / DC Power Supplies Wall Mount
- AC / DC Power Supplies Wall Mount Medical

Exklusiv auch bei Fabrimex:  
• GLASSMAN HIGH VOLTAGE INC.

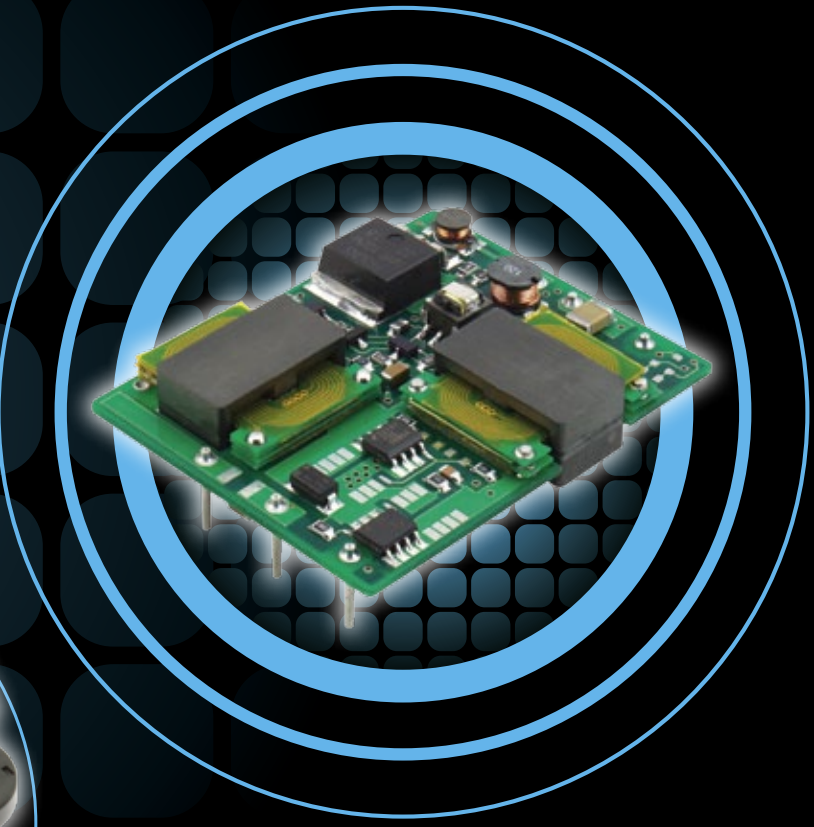
### Versiert

In der industriellen Elektronik hat sich Fabrimex bereits seit den 70er Jahren einen ausgezeichneten Namen gemacht. Unser Traditionsunternehmen entwickelt und produziert seit 1977 selbst. Wir kennen die Bedürfnisse unserer Kunden genau und wissen, dass es für eine maximale Arbeitsleistung eine optimale Stromversorgung braucht, die über einen möglichst langen Zeitraum lückenlos funktioniert.

### Zertifiziert

Unser Unternehmen ist zertifiziert nach DIN EN ISO9001:2008.





## 25 Watt Output

### LDP25



- AC Input Range 90–305 VAC
- Constant Current Output
- Active PFC > 0.9
- Low Inrush Current < 5 A
- Low Profile, Height of 20 mm and Width of 30 mm
- Low Ripple and Noise
- Short Circuit / Over Voltage / Over Temperature Protection
- Fully Isolated Plastic Case
- Safety UL8750, IEC/EN61347-1, IEC/EN61347-2-13
- IP 67 (Optional)
- Dimming Function: 1-10 V / PWM (Optional)
- **Dimensions (L x W x H):** 140 x 30 x 20 mm



LDP Series	Output Power	ID Code	Out Voltage	ID Code	Output Current (set when ordering)	Input Voltage	ID Code
LDP	25	X S: Single O/P A: Single O/P with IP 67	X 240: 24 V 360: 36 V 480: 48 V	X C: No dimming P: with PWM 1-10 V dimming	X 110: 1100 mA 070: 700 mA 053: 530 mA	X A: 100-240 VAC labelled B: 100-277 VAC labelled	X R: 1% output ripple or Blank: 10% output ripple

Model	Input Voltage Range	Output Rated Voltage	Output Rated Current	No load Output Voltage	Output Rated Power	Ripple and Noise	% Eff. Typ.
Single Output	VAC	VDC	mA	VDC	W	Vpp	%
LDP25S240-xxxxxx	90-264/305 <sup>1</sup>	9/16-24 <sup>3</sup>	1100	29	26.4	0.24/2.0 <sup>3</sup>	86
LDP25S360-xxxxxx	90-264/305 <sup>1</sup>	9/24-36 <sup>3</sup>	700	43	25.2	0.36/2.7 <sup>3</sup>	86
LDP25S480-xxxxxx	90-264/305 <sup>1</sup>	9/32-48 <sup>3</sup>	530	56	25.44	0.48/4.8 <sup>3</sup>	86

NOTE: 1. Nominal Input Voltage: 115 VAC, 230/277 VAC  
LDP25XXXX-XXXXAX for 90–264 VAC  
LDP25XXXX-XXXXBX for 90–305 VAC

2. Ripple and Noise are measured at 20 MHz bandwidth with a 0.1 uF ceramic capacitor and 10 uF aluminum capacitor.

3. LDP25XXXX-XXXXXR for the models with Low Ripple: Vout min 9V Typ.  
Ripple Noise = Max Output Rated Voltage \* 1% (Vpp) Eff. = 84% Typ.

## 40 Watt Output

### LDP40



- AC Input Range 90 – 305 VAC
- Constant Current Output
- Active PFC > 0.9
- Low Inrush Current < 5 A
- Low Profile, Height of 25.4 mm and Width of 40 mm
- Low Ripple and Noise
- Short Circuit / Over Voltage / Over Temperature Protection
- Fully Isolated Plastic Case
- Safety UL8750, IEC/EN61347-1, IEC/EN61347-2-13
- IP 67 (Optional)
- Dimming Function: 1-10 V / PWM / DALI (Optional)
- **Dimensions (L x W x H):** 168 x 40 x 25.2 mm



LDP Series	Output Power	ID Code	Out Voltage	ID Code	Output Current (set when ordering)	Input Voltage	ID Code
LDP	40	X S: Single O/P A: Single O/P with IP 67 D: Dual O/P B: Dual O/P with IP 67	X 240: 24 V 360: 36 V 480: 48 V	X C: No dimming D: with DALI dimming P: with PWM dimming 1-10 V/potentiometer	X 170: 1700 mA 084: 840 mA	X A: 100-240 VAC labelled B: 100-277 VAC labelled	X R: 1% output ripple or Blank: 10% output ripple

Model	Input Voltage Range	Output Rated Voltage	Output Rated Current	No load Output Voltage	Output Rated Power	Ripple and Noise	% Eff. Typ.
Single Output	VAC	VDC	mA	VDC	W	Vpp	%
LDP40S240-xxxxxx	100-240/277 <sup>1</sup>	9/16-24 <sup>3</sup>	1700	29	40.8	0.24/2.0 <sup>3</sup>	86
LDP40S480-xxxxxx	100-240/277 <sup>1</sup>	9/32-48 <sup>3</sup>	840	56	40.32	0.48/4.8 <sup>3</sup>	86

NOTE: 1. Nominal Input Voltage: 115 VAC, 230/277 VAC  
LDP40XXXX-XXXXAX for 90–264 VAC Input (100–240 VAC labelled)  
LDP40XXXX-XXXXBX for 90–305 VAC Input (100–277 VAC labelled)

2. Ripple and Noise are measured at 20 MHz bandwidth with a 0.1 uF ceramic capacitor and 10 uF aluminum capacitor.

3. LDP40XXXX-XXXXXR for the models with Low Ripple: Vout min 9V Typ.  
Ripple Noise = Max Output Rated Voltage \* 1% (Vpp) Eff. = 84% Typ.



## 60 Watt Output

## LDP60



- AC Input Range 90–305 VAC
- 30 W Dual Outputs / 60 W Single Output By Paralleling
- Constant Current Output
- Active PFC > 0.9
- Low Inrush Current < 5 A
- Low Profile, Height of 25.4 mm and Width of 40 mm
- Low Ripple and Noise
- Short Circuit / Over Voltage / Over Temperature Protection
- Fully Isolated Plastic Case
- Safety UL8750, IEC/EN61347-1, IEC/EN61347-2-13
- IP 67 (Optional)
- Dimming Function: 1-10 V / PWM / DALI (Optional)
- **Dimensions (L x W x H):** 262 x 40 x 25.4 mm



LDP Series	Output Power	ID Code	Out Voltage	ID Code	Output Current (set when ordering)	Input Voltage	ID Code
LDP	60	X	X	X	X	X	X
		S: Single O/P A: Single O/P with IP 67 D: Dual O/P B: Dual O/P with IP 67	240: 24 V 360: 36 V 480: 48 V	C: No dimming D: with DALI dimming P: with PWM dimming 1-10 V / Po-tentiometer	062: 625 mA 083: 833 mA 125: 1250 mA 166: 1666 mA 250: 2500 mA	A: 100-240 VAC labelled B: 100-277 VAC labelled	R: 1% output ripple or Blank: 10% output ripple

Model	Input Voltage Range	Output Rated Voltage	Output Rated Current	No load Output Voltage	Output Rated Power	Ripple and Noise	% Eff. Typ.
Single Output	VAC	VDC	mA	VDC	W	Vpp	%
LDP60D240-XXXXXX	90-264/305 <sup>1</sup>	9/16-24 <sup>3</sup>	V1 1250 V2 1250	29	30	0.24/2.2 <sup>3</sup>	86
LDP60D360-XXXXXX	90-264/305 <sup>1</sup>	9/24-36 <sup>3</sup>	V1 833 V2 833	43	30	0.36/2.7 <sup>3</sup>	86
LDP60D480-XXXXXX	90-264/305 <sup>1</sup>	9/32-48 <sup>3</sup>	V1 625 V1 625	56	30	0.48/4.8 <sup>3</sup>	86
LDP60S240-XXXXXX	90-264/305 <sup>1</sup>	9/16-24 <sup>3</sup>	2500	29	60	0.24/2.2 <sup>3</sup>	86
LDP60S360-XXXXXX	90-264/305 <sup>1</sup>	9/24-36 <sup>3</sup>	1666	43	60	0.36/2.7 <sup>3</sup>	86
LDP60S480-XXXXXX	90-264/305 <sup>1</sup>	9/32-48 <sup>3</sup>	1250	56	60	0.48/4.8 <sup>3</sup>	86

NOTE: 1. Nominal Input Voltage: 115 VAC, 230/277 VAC  
LDP60XXXX-XXXXAX for the models 90–264 VAC Input (100–240 VAC labelled)  
LDP40XXXX-XXXXBX for the models 90–305 VAC Input (100–277 VAC labelled)

2. Ripple and Noise are measured at 20 MHz bandwidth with a 0.1 µF ceramic capacitor and 10 µF aluminum capacitor.

3. LDP40XXXX-XXXXRX for the models with Low Ripple: Vout min 9 V Typ.  
Ripple Noise = Max Output Rated Voltage \* 1% (Vpp) Eff. = 84% Typ.

## 50 Watt Dual Output

## CLD50D



- AC Input Range 90–264 VAC
- Constant Current Output
- Active PFC > 0.9
- Low Inrush Current < 5 A
- Low Profile, Height of 24.5 mm and Width of 36.1 mm
- Low Ripple and Noise
- Short Circuit / Over Voltage Protection
- Fully Isolated Plastic Case
- Safety UL8750, IEC/EN61347-1, IEC/EN61347-2-13 and PSE Mark
- **Dimensions (L x W x H):** 300 x 36.1 x 24.5 mm



Model	Input Voltage Range	Output Rated Voltage	Output Rated Current	Output Rated Power	Output Voltage Maximum	Ripple and Noise (max.) Note 2	Efficiency Typical Note 3
Single Output	VAC	VDC	mA	W	W	Vpp	%
LDP40S240-xxxxxx	90-264	V1 8-24 V2 8-24	1000	24	30	300	85
LDP40S480-xxxxxx	90-264	V1 18-42 V2 18-42	600	25.2	48	300	85

NOTE: 1. Nominal Input Voltage: 100 VAC, 230 VAC  
2. Ripple and Noise are measured at rated current, 100 VAC, Vo = 36 VDC (CLD50D420), 21 V (CLD50D240) and 20 MHz bandwidth with a 0.1 µF ceramic capacitor.  
3. Measured at rated current, 100 VAC, Vo = 36 VDC (CLD50D420), 21 VDC (CLD50D240)

## 100 Watt Single Output

### LDA100S



- AC Input Range 90 – 305 VAC
- Active PFC Function
- Short Circuit / Over Voltage / Over Current / Over Temperature Protection
- Safety UL8750, IEC/EN61347-1, IEC/EN61347-2-13
- IP 67
- Dimming Function: 1-10V / Resistance / PWM / DALI (Optional)
- Dimming Input Range 1 – 100 %
- 5 Years Warranty



Model	Output Voltage	Rated Current	Ripple and Noise Note 1	Voltage Accuracy Note 2	Line Regulation Note 4	Load Regulation	Constant Current Region	Efficiency Note 5
Single Output	V	A	%	%	%	V <sub>pp</sub>	V	%
LDA100S24	24	4.16	1	±1	±1	±2	18-24	90
LDA100S36	36	2.77	1	±1	±1	±2	27-36	91
LDA100S48	48	2.08	1	±1	±1	±2	36-48	91
LDA100S60	60	1.66	1	±1	±1	±2	48-60	92
LDA100S107	107	0.93	1	±1	±1	±2	75-107	92
LDA100S142	142	0.70	1	±1	±1	±2	107-142	92
LDA100S214	214	0.47	1	±1	±1	±2	150-214	92

## 150 Watt Single Output

### LDA150S



- AC Input Range 90 – 305 VAC
- Active PFC Function
- Short Circuit / Over Voltage / Over Current / Over Temperature Protection
- Safety UL8750, IEC/EN61347-1 IEC/EN61347-2-13
- IP 67
- Dimming Function: 1-10V / Resistance / PWM / DALI (Optional)
- Dimming Input Range 1 – 100 %
- 5 Years Warranty



Model	Output Voltage	Rated Current	Ripple and Noise Note 1	Voltage Accuracy Note 2	Line Regulation Note 4	Load Regulation	Constant Current Region	Efficiency Note 5
Single Output	V	A	%	%	%	V <sub>pp</sub>	V	%
LDA150S240	24	6.25	1	±1	±1	±2	18-24	90
LDA150S480	48	3.125	1	±1	±1	±2	36-48	91
LDA150S107	107	1.4	1	±1	±1	±2	75-107	91
LDA150S142	142	1.05	1	±1	±1	±2	107-142	92
LDA150S214	214	0.7	1	±1	±1	±2	150-214	92

**DALI Interface Module****DIM01**

- For DALI systems
- Provides Two Sets of LED Lighting Synchronization Controls
- Adjustable Output Current
- Waterproof Design
- **Dimensions (L x W x H):**  
**84 x 48 x 17.8 mm**



Model	Input Voltage Range Note 1	Output Operating Voltage Note 1	Output Rated Current	Output Rated Power (max.)	Ripple and Noise (max.) Note 5	Efficiency Typical Note 6
	VDC	VDC	mA	W	V <sub>pp</sub>	%
DIM01L	12-30	Vout 1=10-28 Vout 2=10-28	1000 or 700 or 550 Note 7	28	500	95
DIM01H	12-60	Vout 1=10-58 Vout 2=10-58	700 or 550 or 350 Note 7	40.6	500	95
DIM01H100W	12-60	Vout 1=10-58 Vout 2=10-58	1000	58	500	95
DIM01H070W	12-60	Vout 1=10-58 Vout 2=10-58	700	40.6	500	95
DIM01H055W	12-60	Vout 1=10-58 Vout 2=10-58	550	31.9	500	95
DIM01H035W	12-60	Vout 1=10-58 Vout 2=10-58	350	20.3	500	95

NOTE: 1. Nominal Input Voltage: 48 VDC (DIM01H), 24 VDC (DIM01L) Nominal output Voltage: 36 VDC (DIM01H), 12 VDC (DIM01L)  
5. Ripple and Noise are measured at rated current, Nominal Input and Nominal output And 20 MHz bandwidth with a 0.1uF ceramic capacitor.  
6. Measured at rated current, Nominal Input and Nominal output.

Specifications are subject to change without notice

**57 Watt Buck LED Driver****DLD**

- Output Rated Current from 350 – 1400 mA
- Constant Current Output
- DIP16 Package/Wire End
- IP 67
- Short Circuit Protection
- Dimming Function: 1-10 V / PWM / DALI (Optional)
- **Dimensions (L x W x H):**  
**32.5 x 16.8 x 10.1 mm**



Model Number	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power	Ripple and Noise (max.) Note 2	Efficiency Typical Note 3
	VDC	VDC	mA	W	V <sub>pp</sub>	%
DLD-C035	4.5-60	2-57	350	20	300	96
DLD-C070	4.5-60	2-57	700	40	500	96
DLD-C100	4.5-60	2-57	1000	57	500	96
DLD-C140	10-36	8-33	1400	46.2	500	96

NOTE: 1.  $3 V < V_{in} - V_{out} < 30$  VDC, to keep current accuracy. Nominal Input Voltage: 48 VDC, 28 VDC (C140 models)  
2. Ripple and Noise are measured at rated current, Nominal Input and 36 VDC or 24 VDC (C140 models) output and 20 MHz bandwidth with a 0.1 uF ceramic capacitor.  
3. Measured at rated current, Nominal Input and 36 VDC or 24 VDC (C140 models) output

**57 Watt Buck LED Driver****ALD**

- For DALI Systems
- Constant Current Output
- Output Rated Current from 350 mA – 1'400 mA
- DIP24 Package
- IP 67
- Short Circuit Protection
- **Dimensions (L x W x H):**  
**31.8 x 20.3 x 12.7 mm**



Model	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power	Ripple and Noise (max.) Note 2	Efficiency Typical Note 3
	VDC	VDC	mA	W	V <sub>pp</sub>	%
ALD-C035	4.5-60	2-57	350	20	300	96
ALD-C070	4.5-60	2-57	700	40	500	96
ALD-C100	4.5-60	2-57	1000	57	300	96
ALD-C140	10-36	8-33	1400	46.2	500	96

NOTE: 1.  $3 V < V_{in} - V_{out} < 30$  VDC, to keep current accuracy. Nominal Input Voltage: 48 VDC, 28 VDC (C140 models)  
2. Ripple and Noise are measured at rated current, Nominal Input and 36 VDC or 24 VDC (C140 models) output and 20 MHz bandwidth with a 0.1 uF ceramic capacitor.  
3. Measured at rated current, Nominal Input and 36 VDC or 24 VDC (C140 models) output

**Multi-Channel LED DRIVER**

MLD



- For DALI Systems
- Input Range 10 – 36 VDC & 4.5 – 60 VDC
- Output Rated Current from 700 mA – 1400 mA
- Provides Multi-Channels of LED Lighting Synchronization Controls
- Dimming Function: PWM
- Auxiliary Power for DALI Dimmers (Optional)
- **Dimensions (L x W x H):**  
**128.3 x 58.4 x 20.3 mm**



Model	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power/Channel	Ripple and Noise (max.) Note 2	Efficiency Typical Note 3
	VDC	VDC	mA	W	V <sub>pp</sub>	%
MLD4-C070	4.5-60	2-54 x 4	700 x 4	40	500	96
MLD4-C100	4.5-60	2-57 x 4	1000 x 4	57	500	96
MLD4-C140	10-36	8-33 x 4	1400 x 4	46.2	500	96
MLD6-C070	4.5-60	2-54 x 6	700 x 6	40	500	96
MLD6-C100	4.5-60	2-57 x 6	1000 x 6	57	500	96
MLD6-C140	10-36	8-33 x 6	1400 x 6	46.2	500	96

NOTE: 1. Nominal Input Voltage: 100 VAC, 230 VAC  
 2. Ripple and Noise are measured at rated current, 100 VAC, V<sub>o</sub> = 36 VDC (CLD50D420), 21 V (CLD50D240) and 20 MHz bandwidth with a 0.1 uF ceramic capacitor.  
 3. Measured at rated current, 100 VAC, V<sub>o</sub> = 36 VDC (CLD50D420), 21 VDC (CLD50D240)

## DALI Digital Rotary Dimmer

### DRD-S1-A



- For DALI systems
- On/Off switchable function
- Green LED locator light
- Designed as master controller or slave controller
- DRD-S1 serves as master controller and power supply for 2 slave controllers
- Automatic synchronization makes it possible to change the control location without disturbing effects (Brightness/ONOFF)
- Capable of individually addressing (1–64 addresses) or Broadcast mode
- **Dimensions (L x W x H): 120 x 70 x 48.2 mm**



## DALI Digital Rotary Dimmer

### DRD-S1-E



- Input Voltage: 18 V ~ 20 V
- Minimum Watt: 3 W
- Output Current: 150 mA max.
- Maximum length of signal line: 300 m
- Operating Temperature: 0 ~ 50 °C
- DRD-S1-E Connection:
  1. Active DRD-S1-E\*1 Max connection: 45 Ballast or LED Device
  2. Active DRD-S1-E\*2 Max connection: 90 Ballast or LED Device
  3. Active DRD-S1-E\*1 Max connection: 2 Passive DRD-S1-E
  4. Active DRD-S1-E\*2 Max connection: 4 Passive DRD-S1-E
- **Dimensions (L x W x H): 81 x 81 x 48.3 mm**



## DALI Multiple Dimmer

### DRD-M1-A



- For DALI systems
- On/Off switchable function
- Green LED locator light
- DRD-M1 serves as master controller and power supply for 2 DRD-S1 slave controllers
- Automatic synchronization makes it possible to change the control location without disturbing effects (Brightness/ONOFF)
- 1–6 Individual DALI addresses can be addressed and controlled independently
- Recall and store up to 6 lighting scenes
- Readdressing of individual DALI addresses possible
- **Dimensions (L x W x H): 120 x 70 x 52.3 mm**



## DALI Multiple Dimmer

### DRD-M1-E



- For DALI systems
- On/Off switchable function
- DRD-M1 serves as master controller and power supply for 2 DRD-S1 slave controllers
- Automatic synchronization makes it possible to change the control location without disturbing effects (Brightness/ONOFF)
- 1–4 Individual DALI addresses can be addressed and controlled independently
- Recall and store up to 4 lighting scenes
- Readdressing of individual DALI addresses possible
- **Dimensions (L x W x H): 81 x 81 x 34.1 mm**



## DALI Touch panel controller

### DTP-A



- For DALI systems
- On/Off switchable function
- DTP-A serves as master controller and power supply for 2 DRD-S1 slave controllers
- Automatic synchronization makes it possible to change the control location without disturbing effects (Brightness/ONOFF)
- 1–6 Individual DALI addresses can be addressed and controlled independently
- Recall and store up to 4 lighting scenes
- Readdressing of individual DALI addresses possible
- 2.8" LCD display





**0.7-3.0 Amp****ERL 1.6 - 2A****2:1 input voltage range DC/DC converters without galvanic isolation**

- No input/output isolation
- High reliability
- High efficiency up to 94 %
- No derating up to 71 °C
- Pi-filter at input
- Over current protection
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ERL0510-10	9.0...32.0	5.0	2000	15	88	100	A8
ERL1210-10	9.0...32.0	12.0	830	15	87	120	A8
ERL1220-10	16.0...32.0	12.0	1600	15	93	120	A8
ERL1510-10	9.0...32.0	12.0	666	15	87	150	A8
ERL1524-10	19.0...32.0	15.0	1600	15	94	150	A8
ERL3V307-10	4.7...6.0	3.3	2000	15	85	100	A8
ERL3V307-10	9.0...32.0	3.3	2000	15	84	100	A8

**0.7-3.0 Amp****ERL 1.6 - 2A SMD****2:1 input voltage range DC/DC converters without galvanic isolation**

- No input/output isolation
- High reliability
- High efficiency up to 94 %
- No derating up to 71 °C
- Pi-filter at input
- Over current protection
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ERL1510-10-S	9.0...32.0	12.0	666	15	87	150	AS8
ERL1210-10-S	9.0...32.0	12.0	830	15	87	120	AS8
ERL1220-10-S	16.0...32.0	12.0	1600	15	93	120	AS8
ERL1524-10-S	19.0...32.0	15.0	1600	15	94	150	AS8
ERL0510-10-S	9.0...32.0	5.0	2000	15	88	100	AS8
ERL3V307-10-S	4.7...6.0	3.3	2000	15	85	100	AS8
ERL3V307-10-S	9.0...32.0	3.3	2000	15	84	100	AS8

**1 Amp****SRL 1A****Wide input voltage range DC/DC regulators without galvanic isolation**

- High efficiency up to 90 %
- High reliability
- Fast action feedback module
- No derating up to 71 °C
- Very low output ripple and noise
- Burn-in at full load
- EMC according to EN55022 class B
- **Dimensions (L x W x H): 32 x 20 x 12 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
SRL5005-12	7.0...40.0	5.1	1000	10	82	60	A1
SRL3303-12	4.8...40.0	3.3	1000	10	75	60	A1
SRL1515-12	17.0...40.0	15.0	1000	10	90	60	A1
SRL1212-12	14.0...40.0	12.0	1000	10	88	60	A1

## 2.0 Amp

### SRL 2A



#### 2:1 input voltage range DC/DC converters without galvanic isolation

- High efficiency up to 86 %
- High reliability
- Fast action feedback module
- No derating up to 71 °C
- Very low output ripple and noise
- Burn-in at full load
- EMC according to EN55022 class B
- **Dimensions (L x W x H): 32 x 20 x 12 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
SRL0306-12	8.0...40.0	3.3	2000	10	80	40	A1
SRL0510-12	8.0...40.0	5.1	2000	10	80	40	A1

## 3.0 Amp

### SRL 3A



#### Wide input voltage range DC/DC regulators without galvanic isolation

- High efficiency up to 93 %
- High reliability
- Fast action feedback module
- No derating up to 71 °C
- Very low output ripple and noise
- Burn-in at full load
- EMC according to EN55022 class B
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
SRL0310-S	8.0...40.0	3.3	3000	5	80	60	B1
SRL0515-S	8.0...40.0	5.1	3000	5	85	60	B1
SRL1236-S	15.0...40.0	12.0	3000	10	91	60	B1
SRL1545-S	18.0...40.0	15.0	3000	15	93	60	B1

## 5.0 Amp

### ERS 5A, SIL-11



#### Highly adjustable DC/DC modules without galvanic isolation

- POLA standard pinning
- High reliability
- High efficiency up to 94 %
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- UL and cUL1950 certified
- **Dimensions (L x W x H): 22.9 x 10.16 x 5.6 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS05-3V317A	3.0...5.5	0.75-3.63	5	35	94	50	S9-1
ERS12-0525A	8.3...14.0	0.75-5.00	5	45	92	75	S9-1

**5.0 Amp****ERS 5A SMD****Highly adjustable DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 94 %
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- UL and cUL1950 certified
- **Dimensions (L x W x H): 20.3 x 11.43 x 6.09 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS05-3V317A-S	3.0...5.5	0.75-3.63	5	35	94	50	P-SMD2
ERS12-0525A-S	8.3...14.0	0.75-5.00	5	45	92	75	P-SMD2

**5.0 Amp****SRL 5A****Wide input voltage range DC/DC regulators without galvanic isolation**

- With Inhibit and adjustment pins (Suffix "S2")
- High efficiency up to 93 %
- High reliability
- Fast action feedback module
- No derating up to 71 °C
- Very low output ripple and noise
- Burn-in at full load
- EMC according to EN55022 class B
- **Dimensions (L x W x H): 70 x 50 x 22 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
SRL0315-S	8.0...40.0	3.3	5	5	80	50	F1
SRL0315-S2	8.0...40.0	3.3	5	5	80	50	F2
SRL0525-S	8.0...40.0	5.1	5	5	85	50	F1
SRL0525-S2	8.0...40.0	5.1	5	5	85	50	F2
SRL1260-S	15.0...40.0	12.0	5	5	91	50	F1
SRL1260-S2	15.0...40.0	12.0	5	5	91	50	F2
SRL1575-S	18.0...40.0	15.0	5	15	93	50	F1
SRL1575-S2	18.0...40.0	15.0	5	15	93	50	F2

**10.0 Amp****ERS-Series, SIL-11****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 95 %
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- Negative remote on/off logic optional
- UL and cUL1950 certified
- **Dimensions (L x W x H): 51 x 8 x 12.7 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS05-1V010	3.0...5.5	1.0	10	50	85	50	S11
ERS05-1V212	3.0...5.5	1.2	10	50	86	50	S11
ERS05-1V515	3.0...5.5	1.5	10	50	88	50	S11
ERS05-1V818	3.0...5.5	1.8	10	50	90	50	S11
ERS05-2V020	3.0...5.5	2.0	10	50	91	50	S11
ERS05-2V525	3.0...5.5	2.5	10	60	93	50	S11
ERS05-3V333	4.5...5.5	3.3	10	60	95	50	S11
ERS12-0550	9.0...14.0	5.0	10	70	95	50	S11
ERS12-1V010	9.0...14.0	1.0	10	50	85	50	S11
ERS12-1V212	9.0...14.0	1.2	10	50	86	50	S11
ERS12-1V515	9.0...14.0	1.5	10	50	89	50	S11
ERS12-1V818	9.0...14.0	1.8	10	50	90	50	S11
ERS12-2V020	9.0...14.0	2.0	10	50	91	50	S11
ERS12-2V525	9.0...14.0	2.5	10	60	92	50	S11
ERS12-3V333	9.0...14.0	3.3	10	60	93	50	S11

Alternative: ERS...N N = negative remote on/off logic

**10.0 Amp****ERS-Series, SMD****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 95 %
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- Negative remote on/off logic optional
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**33 x 14 x 9.3 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS05-1V010-S	3.0...5.5	1.0	10	50	85	50	P-SMD2
ERS05-1V212-S	3.0...5.5	1.2	10	50	86	50	P-SMD2
ERS05-1V515-S	3.0...5.5	1.5	10	50	88	50	P-SMD2
ERS05-1V818-S	3.0...5.5	1.8	10	50	90	50	P-SMD2
ERS05-2V020-S	3.0...5.5	2.0	10	50	91	50	P-SMD2
ERS05-2V525-S	3.0...5.5	2.5	10	60	93	50	P-SMD2
ERS05-3V333-S	4.5...5.5	3.3	10	60	95	50	P-SMD2
ERS12-0550-S	9.0...14.0	5.0	10	60	95	50	P-SMD2
ERS12-1V010-S	9.0...14.0	1.0	10	50	84	50	P-SMD2
ERS12-1V212-S	9.0...14.0	1.2	10	50	86	50	P-SMD2
ERS12-1V515-S	9.0...14.0	1.5	10	50	89	50	P-SMD2
ERS12-1V818-S	9.0...14.0	1.8	10	50	90	50	P-SMD2
ERS12-2V020-S	9.0...14.0	2.0	10	50	91	50	P-SMD2
ERS12-2V525-S	9.0...14.0	2.5	10	60	92	50	P-SMD2
ERS12-3V333-S	9.0...14.0	3.3	10	60	93	50	P-SMD2
Alternative:	ERS...-N	N = negative remote on/off logic					

**10.0 Amp****ERS-Series, SIL-11/SMD Adjustable****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 95 %
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- Negative remote on/off logic optional
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**33 x 14 x 9.3 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS12-0550A	8.3...14.0	0.75-5.0	10	70	93	50	S11
ERS12-0550A-S	8.3...14.0	0.75-5.0	10	60	93	50	P-SMD2

**10.0 Amp****ERW-Series, SIL-12/SMD****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 95 %
- Wide output voltage range 0.75-5.0 VDC
- No derating up to 50 °C
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- Negative on/off remote logic optional
- "Power Good" Signal
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**SIL-12: 50.8 x 8.3 x 13 mm**  
**SMD: 33 x 13.5 x 8.8 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERW12-0550A	6...14	0.75...5.0	10	40	95	75	S12
ERW12-0550A-S	6...14	0.75...5.0	10	40	95	75	P-SMD3

**15.0 Amp****ERS-Series, SIL-11/SMD****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency of 94 %
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- Negative on/off remote logic optional
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**SIL-11: 51 x 8 x 12.7 mm**  
**SMD: 33 x 13.5 x 9.3 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS05-3V350	3.0...5.5	0.9...3.63	15	60	94	50	S11
ERS05-3V350-S	3...5.5	0.9...3.63	15	60	94	50	P-SMD2



**16.0 Amp****ERS-Series, SIL-11/SMD****Surface mounted, power-on-point (POP®) DC/DC modules without galvanic separation**

- High efficiency up to 94 %
- Wide output voltage range 0.75 – 5.0 VDC
- No derating up to 30 °C ambient temperature
- Very low output ripple and noise
- Remote on/off control
- Short circuit protection
- Over temperature protection

- **Dimensions (L x W x H):**  
**SIL-11: 50.8 x 8.3 x 12.95 mm**  
**SMD: 33 x 13.5 x 9.3 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERS12-0580A	9.0...14.0	0.75...5.0	16	95	94	75	S11
ERS12-0580A-S	9.0...14.0	0.75...5.0	16	95	94	75	P-SMD2
Alternative:	ERW...N	N = negative remote on/off logic					
	ERW...P	P = power good function					

**16.0 Amp****ERW-Series, SIL-12/SMD****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 94 %
- Wide output voltage range 0.75 – 5.0 VDC
- No derating up to 30 °C
- "Power Good" Signal
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**SIL-12: 50.8 x 8.3 x 13 mm**  
**SMD: 33 x 13.5 x 8.8 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERW12-0580A	6.0...14.0	0.75...5.0	16	95	94	75	S12
ERW12-0580A-S	6.0...14.0	0.75...5.0	16	95	94	75	P-SMD3
Alternative:	ERW...N	N = negative remote on/off logic					
	ERW...P	P = power good function					

**20.0 Amp****ERW-Series, SIL-12/SMD****Power-On-Point DC/DC modules without galvanic isolation**

- POLA standard pinning
- High reliability
- High efficiency up to 94 %
- Wide output voltage range 0.75–5.0 VDC
- No derating up to 30 °C
- Continuous short circuit protection
- Over temperature protection
- Remote on/off control
- "Power Good" Signal
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**SIL-12: 61.0 x 8.3 x 13 mm**  
**SMD: 43.2 x 13.5 x 9.3 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ERW12-05100A	6.0...14.0	0.75...5.0	20	95	94	75	S12
ERW12-05100A-S	6.0...14.0	0.75...5.0	20	95	94	75	P-SMD4
Alternative:	ERW...N	N = negative remote on/off logic					
	ERW...P	P = power good function					

**1 Watt****SC-Series****Single inline, unregulated DC/DC modules**

- I/O isolation of 1'000 VDC
- 1 s short circuit protection
- **Dimensions (L x W x H): 19.5 x 6.1 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
SC05-0501NS	4.5...5.5	5.0	200	40	79	75	S7-1
SC05-1201NS	4.5...5.5	12.0	84	40	79	75	S7-1
SC05-1501NS	4.5...5.5	15.0	67	40	79	75	S7-1
SC12-0501NS	10.8...13.2	5.0	200	15	80	75	S7-1
SC12-1201NS	10.8...13.2	12.0	84	15	81	75	S7-1
SC12-1501NS	10.8...13.2	15.0	67	15	81	75	S7-1
SC24-0501NS	21.6...26.4	5.0	200	7	80	75	S7-1
SC24-1201NS	21.6...26.4	12.0	84	7	83	75	S7-1
SC24-1501NS	21.6...26.4	15.0	67	7	81	75	S7-1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
SC05-0501ND	4.5...5.5	±5.0	±100	40	74	75	S7-5
SC05-1201ND	4.5...5.5	±12.0	±42	40	78	75	S7-5
SC05-1501ND	4.5...5.5	±15.0	±33	40	78	75	S7-5
SC12-0501ND	10.8...13.2	±5.0	±100	15	77	75	S7-5
SC12-1201ND	10.8...13.2	±12.0	±42	15	80	75	S7-5
SC12-1501ND	10.8...13.2	±15.0	±33	15	81	75	S7-5
SC24-0501ND	21.6...26.4	±5.0	±100	7	79	75	S7-5
SC24-1201ND	21.6...26.4	±12.0	±42	7	81	75	S7-5
SC24-1501ND	21.6...26.4	±15.0	±33	7	82	75	S7-5

Option: SC...-...NST SMD Pinning

**1 Watt****SC-Series, NST****Single inline, unregulated DC/DC converter**

- I/O isolation of 1'000 VDC
- Multiple input voltages
- No derating up to 85 °C ambient temperature
- Industry standard pinout
- Short circuit protection 1 sec.
- **Dimensions (L x W x H): 11.6 x 6.0 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
SC05-0501NST	4.5...5.5	5.0	200	40	79	100	S4-1
SC05-1201NST	4.5...5.5	12.0	84	40	79	100	S4-1
SC05-1501NST	4.5...5.5	15.0	67	40	80	100	S4-1
SC12-0501NST	10.8...13.2	5.0	200	15	81	100	S4-1
SC12-1201NST	10.8...13.2	12.0	84	15	81	100	S4-1
SC12-1501NST	10.8...13.2	15.0	67	15	82	100	S4-1
SC24-0501NST	10.8...13.2	5.0	200	7	80	100	S4-1
SC24-1201NST	10.8...13.2	12.0	84	7	80	100	S4-1
SC24-1501NST	10.8...13.2	15.0	67	7	81	100	S4-1

**1 Watt****SC-Series, SMD****Single inline, unregulated DC/DC modules**

- I/O isolation of 1'000 VDC
- 1 s short circuit protection
- **Dimensions (L x W x H):**  
**SMD single: 12.7 x 8.0 x 6.8 mm**  
**SMD dual: 15.24 x 8.0 x 6.8 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
SC05-0501NS-S	4.5...5.5	5.0	200	40	79	120	SMD8
SC05-1201NS-S	4.5...5.5	12.0	84	40	79	120	SMD8
SC05-1501NS-S	4.5...5.5	15.0	67	40	79	120	SMD8
SC12-0501NS-S	10.8...13.2	5.0	200	15	80	120	SMD8
SC12-1201NS-S	10.8...13.2	12.0	84	15	81	120	SMD8
SC12-1501NS-S	10.8...13.2	15.0	67	15	81	120	SMD8
SC24-0501NS-S	21.6...26.4	5.0	200	7	80	120	SMD8
SC24-1201NS-S	21.6...26.4	12.0	84	7	83	120	SMD8
SC24-1501NS-S	21.6...26.4	15.0	67	7	81	120	SMD8
Dual Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
SC05-0501ND-S	4.5...5.5	±5.0	±100	40	74	120	SMD10
SC05-1201ND-S	4.5...5.5	±12.0	±42	40	78	120	SMD10
SC05-1501ND-S	4.5...5.5	±15.0	±33	40	78	120	SMD10
SC12-0501ND-S	10.8...13.2	±5.0	±100	15	77	120	SMD10
SC12-1201ND-S	10.8...13.2	±12.0	±42	15	80	120	SMD10
SC12-1501ND-S	10.8...13.2	±15.0	±33	15	81	120	SMD10
SC24-0501ND-S	21.6...26.4	±5.0	±100	7	79	120	SMD10
SC24-1201ND-S	21.6...26.4	±12.0	±42	7	81	120	SMD10
SC24-1501ND-S	21.6...26.4	±15.0	±33	7	82	120	SMD10

**2 Watt****SC-Series****Single inline, unregulated DC/DC modules**

- I/O isolation of 1'000 VDC
- 1 s short circuit protection
- **Dimensions (L x W x H): 19.5 x 6.1 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
SC05-3V302NS	4.5...9.0	3.3	500	60	73	75	S7-1
SC05-0502NS	4.5...9.0	5.0	400	60	76	75	S7-1
SC05-1202NS	4.5...9.0	12.0	167	60	80	75	S7-1
SC05-1502NS	4.5...9.0	15.0	134	60	80	75	S7-1
SC12-3V302NS	9.0...18.0	3.3	500	30	76	75	S7-1
SC12-0502NS	9.0...18.0	5.0	400	30	79	75	S7-1
SC12-1202NS	9.0...18.0	12.0	167	30	82	75	S7-1
SC12-1502NS	9.0...18.0	15.0	134	30	83	75	S7-1
SC24-3V302NS	18.0...36.0	3.3	500	18	76	75	S7-1
SC24-0502NS	18.0...36.0	5.0	400	18	79	75	S7-1
SC24-1202NS	18.0...36.0	12.0	167	18	82	75	S7-1
SC24-1502NS	18.0...36.0	15.0	134	18	83	75	S7-1
SC48-3V302NS	36.0...75.0	3.3	500	9	74	75	S7-1
SC48-0502NS	36.0...75.0	5.0	400	9	79	75	S7-1
SC48-1202NS	36.0...75.0	12.0	167	9	82	75	S7-1
SC48-1502NS	36.0...75.0	15.0	134	9	84	75	S7-1
Dual Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
SC05-0502ND	4.5...9.0	±5.0	±200	60	77	75	S7-5
SC05-1202ND	4.5...9.0	±12.0	±83	60	79	75	S7-5
SC05-1502ND	4.5...9.0	±15.0	±67	60	80	75	S7-5
SC12-0502ND	9.0...18.0	±5.0	±200	30	79	75	S7-5
SC12-1202ND	9.0...18.0	±12.0	±83	30	82	75	S7-5
SC12-1502ND	9.0...18.0	±15.0	±67	30	83	75	S7-5
SC24-0502ND	18.0...36.0	±5.0	±200	18	79	75	S7-5
SC24-1202ND	18.0...36.0	±12.0	±83	18	81	75	S7-5
SC24-1502ND	18.0...36.0	±15.0	±67	18	84	75	S7-5
SC48-0502ND	36.0...75.0	±5.0	±200	9	78	75	S7-5
SC48-1202ND	36.0...75.0	±12.0	±83	9	82	75	S7-5
SC48-1502ND	36.0...75.0	±15.0	±67	9	84	75	S7-5

## 1.5 Watt

## EC-Series, DIL-24



## DC/DC converter with single or dual outputs

- I/O isolation of 500 (Suffix M), 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Pi-filter at input
- Continuous short circuit proof
- Linear regulation
- No derating up to 71 °C
- Low output ripple and noise
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- SMD version for I/O isolation of 500 available (Suffix M-S)
- **Dimensions (L x W x H): 32 x 20 x 10.2 mm**

Model	Uin	Uout	Iout	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
EC05-0502SM	4.5...5.5	5.0	300	110	50	50	A1
EC05-1202SM	4.5...5.5	12.0	125	110	50	50	A1
EC05-1502SM	4.5...5.5	15.0	100	110	50	50	A1
EC12-0502SM	10.8...13.2	5.0	300	40	50	50	A1
EC12-1202SM	10.8...13.2	12.0	125	40	50	50	A1
EC12-1502SM	10.8...13.2	15.0	100	40	50	50	A1
EC24-0502SM	21.6...26.4	5.0	300	20	50	50	A1
EC24-1202SM	21.6...26.4	12.0	125	20	50	50	A1
EC24-1502SM	21.6...26.4	15.0	100	20	50	50	A1
EC48-0502SM	43.2...52.8	5.0	300	15	50	50	A1
EC48-1202SM	43.2...52.8	12.0	125	15	50	50	A1
EC48-1502SM	43.2...52.8	15.0	100	15	50	50	A1
Dual Output	VDC	VDC	mA	mA	%	mVpp	
EC05-1202DM	4.5...5.5	±12.0	±60	110	50	50	A2
EC05-1502DM	4.5...5.5	±15.0	±50	110	50	50	A2
EC12-1202DM	10.8...13.2	±12.0	±60	40	50	50	A2
EC12-1502DM	10.8...13.2	±15.0	±50	40	50	50	A2
EC24-1202DM	21.6...26.4	±12.0	±60	20	50	50	A2
EC24-1502DM	21.6...26.4	±15.0	±50	20	50	50	A2
EC48-1202DM	43.2...52.8	±12.0	±60	15	50	50	A2
EC48-1502DM	43.2...52.8	±15.0	±50	15	50	50	A2
Standard Version:	EC...02xM	M = 500 VDC I/O Isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	EC...02xV	V = 3'000 I/O Isolation and plastic case				Pinning A6 (s)/ A7 (d)	

## 1.5 Watt

## EC-Series, SMD



## DC/DC converter with single or dual outputs

- I/O isolation of 500 (Suffix M), 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Pi-filter at input
- Continuous short circuit proof
- Linear regulation
- No derating up to 71 °C
- Low output ripple and noise
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	Uin	Uout	Iout	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
EC05-0502SM-S	4.5...5.5	5.0	300	110	50	50	AS1
EC05-1202SM-S	4.5...5.5	12.0	125	110	50	50	AS1
EC05-1502SM-S	4.5...5.5	15.0	100	110	50	50	AS1
EC12-0502SM-S	10.8...13.2	5.0	300	40	50	50	AS1
EC12-1202SM-S	10.8...13.2	12.0	125	40	50	50	AS1
EC12-1502SM-S	10.8...13.2	15.0	100	40	50	50	AS1
EC24-0502SM-S	21.6...26.4	5.0	300	20	50	50	AS1
EC24-1202SM-S	21.6...26.4	12.0	125	20	50	50	AS1
EC24-1502SM-S	21.6...26.4	15.0	100	20	50	50	AS1
EC48-0502SM-S	43.2...52.8	5.0	300	15	50	50	AS1
EC48-1202SM-S	43.2...52.8	12.0	125	15	50	50	AS1
EC48-1502SM-S	43.2...52.8	15.0	100	15	50	50	AS1
Dual Output	VDC	VDC	mA	mA	%	mVpp	
EC05-1202DM-S	4.5...5.5	±12.0	±60	110	50	50	AS2
EC05-1502DM-S	4.5...5.5	±15.0	±50	110	50	50	AS2
EC12-1202DM-S	10.8...13.2	±12.0	±60	40	50	50	AS2
EC12-1502DM-S	10.8...13.2	±15.0	±50	40	50	50	AS2
EC24-1202DM-S	21.6...26.4	±12.0	±60	20	50	50	AS2
EC24-1502DM-S	21.6...26.4	±15.0	±50	20	50	50	AS2
EC48-1202DM-S	43.2...52.8	±12.0	±60	15	50	50	AS2
EC48-1502DM-S	43.2...52.8	±15.0	±50	15	50	50	AS2
Standard Version:	EC...02xM	M = 500 VDC I/O Isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	EC...02xV	V = 3'000 I/O Isolation and plastic case				Pinning A6 (s)/ A7 (d)	



## 2 Watt

### SCW-Series, SIL-8



#### Single inline regulated DC/DC module

- I/O isolation of 1'500 VDC
- Efficiency up to 83 %
- No derating up to 85 °C ambient temperature
- Continuous short circuit protection
- **Dimensions (L x W x H): 21.8 x 9.2 x 11.1 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
SCW05-3V302SH	4.5...9	3.3	500	60.0	72	75	S8-1
SCW05-0502SH	4.5...9	5.0	400	60.0	76	75	S8-1
SCW05-1202SH	4.5...9	12.0	167	60.0	79	75	S8-1
SCW05-1502SH	4.5...9	15.0	134	60.0	80	75	S8-1
SCW12-3V302SH	9...18	3.3	500	30.0	74	75	S8-1
SCW12-0502SH	9...18	5.0	400	30.0	78	75	S8-1
SCW12-1202SH	9...18	12.0	167	30.0	81	75	S8-1
SCW12-1502SH	9...18	15.0	134	30.0	82	75	S8-1
SCW24-3V302SH	18...36	3.3	500	18.0	76	75	S8-1
SCW24-0502SH	18...36	5.0	400	18.0	78	75	S8-1
SCW24-1202SH	18...36	12.0	167	18.0	81	75	S8-1
SCW24-1502SH	18...36	15.0	134	18.0	82	75	S8-1
SCW48-3V302SH	36...75	3.3	500	9.0	74	75	S8-1
SCW48-0502SH	36...75	5.0	400	9.0	78	75	S8-1
SCW48-1202SH	36...75	12.0	167	9.0	82	75	S8-1
SCW48-1502SH	36...75	15.0	134	9.0	83	75	S8-1
Dual Output	VDC	VDC	mA	mA	%	mVpp	
SCW05-0502DH	4.5...9	±5.0	±200	60.0	76	75	S8-2
SCW05-1202DH	4.5...9	±12.0	±83	60.0	80	75	S8-2
SCW05-1502DH	4.5...9	±15.0	±67	60.0	80	75	S8-2
SCW12-0502DH	9...18	±5.0	±200	30.0	80	75	S8-2
SCW12-1202DH	9...18	±12.0	±83	30.0	82	75	S8-2
SCW12-1502DH	9...18	±15.0	±67	30.0	82	75	S8-2
SCW24-0502DH	18...36	±5.0	±200	18.0	78	75	S8-2
SCW24-1202DH	18...36	±12.0	±83	18.0	81	75	S8-2
SCW24-1502DH	18...36	±15.0	±67	18.0	82	75	S8-2
SCW48-0502DH	36...75	±5.0	±200	9.0	78	75	S8-2
SCW48-1202DH	36...75	±12.0	±83	9.0	83	75	S8-2
SCW48-1502DH	36...75	±15.0	±67	9.0	82	75	S8-2

## 3 Watt

### ECU-Series, DIL-24



#### 4:1 input voltage range DC/DC converter line with single or dual outputs

- I/O isolation of 500 (Suffix M), 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ECU24-0303SM	9...36	3.3	600	15.0	70	100	A1
ECU24-0503SM	9...36	5.0	600	15.0	72	100	A1
ECU24-1203SM	9...36	12.0	250	15.0	76	100	A1
ECU24-1503SM	9...36	15.0	200	15.0	76	100	A1
ECU48-0303SM	18...72	3.3	600	7.5	70	100	A1
ECU48-0503SM	18...72	5.0	600	7.5	72	100	A1
ECU48-1203SM	18...72	12.0	250	7.5	80	100	A1
ECU48-1503SM	18...72	15.0	200	7.5	80	100	A1
Dual Output	VDC	VDC	mA	mA	%	mVpp	
ECU24-0503DM	9...36	±5.0	±300	25.0	70	100	A2
ECU24-1203DM	9...36	±12.0	±125	25.0	72	120	A2
ECU24-1503DM	9...36	±15.0	±100	25.0	72	150	A2
ECU48-0503DM	18...72	±5.0	±300	12.0	71	100	A2
ECU48-1203DM	18...72	±12.0	±125	12.0	72	120	A2
ECU48-1503DM	18...72	±15.0	±100	12.0	72	150	A2
Standard Version:	ECU...-.03xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	ECU...-.03xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
	ECU...-.03xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	

**3 Watt****ECU-Series, SMD****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 500 (Suffix M), 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECU24-0303SM-S	9...36	3.3	600	15.0	70	100	AS1
ECU24-0503SM-S	9...36	5.0	600	15.0	72	100	AS1
ECU24-1203SM-S	9...36	12.0	250	15.0	76	100	AS1
ECU24-1503SM-S	9...36	15.0	200	15.0	76	100	AS1
ECU48-0303SM-S	18...72	3.3	600	7.5	70	100	AS1
ECU48-0503SM-S	18...72	5.0	600	7.5	72	100	AS1
ECU48-1203SM-S	18...72	12.0	250	7.5	80	100	AS1
ECU48-1503SM-S	18...72	15.0	200	7.5	80	100	AS1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECU24-0503DM-S	9...36	±5.0	±300	25.0	70	100	AS2
ECU24-1203DM-S	9...36	±12.0	±125	25.0	72	120	AS2
ECU24-1503DM-S	9...36	±15.0	±100	25.0	72	150	AS2
ECU48-0503DM-S	18...72	±5.0	±300	12.0	71	100	AS2
ECU48-1203DM-S	18...72	±12.0	±125	12.0	72	120	AS2
ECU48-1503DM-S	18...72	±15.0	±100	12.0	72	150	AS2
Standard Version:	ECU...-...03xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	ECU...-...03xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
	ECU...-...03xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	

## 3 Watt

## ECW-Series, DIL-24


**2:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 500 (Suffix M), 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- Remote on/off control optional
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- EMC according to EN55022 Class B optional

- **Dimensions (L x W x H):**  
**Class A: 32 x 20 x 10.2 mm**  
**Class B: 32 x 20 x 12.7 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW05-0303SM	4.5...6.0	3.3	600	15.0	61	100	A1
ECW05-0503SM	4.5...6.0	5.0	600	15.0	70	100	A1
ECW05-1203SM	4.5...6.0	12.0	250	15.0	75	120	A1
ECW05-1503SM	4.5...6.0	15.0	200	15.0	75	150	A1
ECW12-0303SM	9...18	3.3	600	7.5	65	100	A1
ECW12-0503SM	9...18	5.0	600	7.5	73	100	A1
ECW12-1203SM	9...18	12.0	250	7.5	78	120	A1
ECW12-1503SM	9...18	15.0	200	7.5	78	150	A1
ECW24-0303SM	18...36	3.3	600	5.0	66	100	A1
ECW24-0503SM	18...36	5.0	600	5.0	74	100	A1
ECW24-1203SM	18...36	12.0	250	5.0	80	120	A1
ECW24-1503SM	18...36	15.0	200	5.0	80	150	A1
ECW48-0303SM	36...72	3.3	600	2.0	68	100	A1
ECW48-0503SM	36...72	5.0	600	2.0	76	100	A1
ECW48-1203SM	36...72	12.0	250	2.0	80	120	A1
ECW48-1503SM	36...72	15.0	200	2.0	80	150	A1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW05-0503DM	4.5...6.0	±5.0	±300	25.0	70	100	A2
ECW05-1203DM	4.5...6.0	±12.0	±125	25.0	75	120	A2
ECW05-1503DM	4.5...6.0	±15.0	±100	25.0	75	150	A2
ECW12-0503DM	9...18	±5.0	±300	12.0	73	100	A2
ECW12-1203DM	9...18	±12.0	±125	12.0	78	120	A2
ECW12-1503DM	9...18	±15.0	±100	12.0	78	150	A2
ECW24-0503DM	18...36	±5.0	±300	7.5	74	100	A2
ECW24-1203DM	18...36	±12.0	±125	7.5	80	120	A2
ECW24-1503DM	18...36	±15.0	±100	7.5	80	150	A2
ECW48-0503DM	36...72	±5.0	±300	3.0	76	100	A2
ECW48-1203DM	36...72	±12.0	±125	3.0	78	120	A2
ECW48-1503DM	36...72	±15.0	±100	3.0	78	150	A2
Standard Version:	ECW...-...03xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	ECW...-...03xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
	ECW...-...03xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	
	ECW...-...03xxB	B = EN55022 Class B					
	ECW...-...03xxBT	BT = EN55022 Class B & remote on/off ctrl for 1'500 and 3'000 VDC only				see data sheet	

## 3 Watt

## ECW-Series, SMD



## 2:1 input voltage range DC/DC converter line with single or dual outputs

- I/O isolation of 500 (Suffix M), 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- Remote on/off control optional
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- EMC according to EN55022 Class B optional
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW05-0303SM-S	4.5...6.0	3.3	600	15.0	61	100	AS1
ECW05-0503SM-S	4.5...6.0	5.0	600	15.0	70	100	AS1
ECW05-1203SM-S	4.5...6.0	12.0	250	15.0	75	120	AS1
ECW05-1503SM-S	4.5...6.0	15.0	200	15.0	75	150	AS1
ECW12-0303SM-S	9...18	3.3	600	7.5	65	100	AS1
ECW12-0503SM-S	9...18	5.0	600	7.5	73	100	AS1
ECW12-1203SM-S	9...18	12.0	250	7.5	78	120	AS1
ECW12-1503SM-S	9...18	15.0	200	7.5	78	150	AS1
ECW24-0303SM-S	18...36	3.3	600	5.0	66	100	AS1
ECW24-0503SM-S	18...36	5.0	600	5.0	74	100	AS1
ECW24-1203SM-S	18...36	12.0	250	5.0	80	120	AS1
ECW24-1503SM-S	18...36	15.0	200	5.0	80	150	AS1
ECW48-0303SM-S	36...72	3.3	600	2.0	68	100	AS1
ECW48-0503SM-S	36...72	5.0	600	2.0	76	100	AS1
ECW48-1203SM-S	36...72	12.0	250	2.0	80	120	AS1
ECW48-1503SM-S	36...72	15.0	200	2.0	80	150	AS1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW05-0503DM-S	4.5...6.0	±5.0	±300	25.0	70	100	AS2
ECW05-1203DM-S	4.5...6.0	±12.0	±125	25.0	75	120	AS2
ECW05-1503DM-S	4.5...6.0	±15.0	±100	25.0	75	150	AS2
ECW12-0503DM-S	9...18	±5.0	±300	12.0	73	100	AS2
ECW12-1203DM-S	9...18	±12.0	±125	12.0	78	120	AS2
ECW12-1503DM-S	9...18	±15.0	±100	12.0	78	150	AS2
ECW24-0503DM-S	18...36	±5.0	±300	7.5	74	100	AS2
ECW24-1203DM-S	18...36	±12.0	±125	7.5	80	120	AS2
ECW24-1503DM-S	18...36	±15.0	±100	7.5	80	150	AS2
ECW48-0503DM-S	36...72	±5.0	±300	3.0	76	100	AS2
ECW48-1203DM-S	36...72	±12.0	±125	3.0	78	120	AS2
ECW48-1503DM-S	36...72	±15.0	±100	3.0	78	150	AS2
Standard Version:	ECW...03xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	ECW...03xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
	ECW...03xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	
	ECW...03xB	B = EN55022 Class B					
	ECW...03xBT	BT = EN55022 Class B & remote on/off ctrl for 1'500 and 3'000 VDC only				see data sheet	

**3 Watt****SCU-Series****4:1 input voltage range DC/DC converter with single or dual outputs**

- I/O isolation of 1'500 VDC
- Efficiency up to 85 %
- No derating up to 75 °C ambient temperature
- Remote on/off control
- Continuous short circuit protection
- Input Under Voltage Protection
- **Dimensions (L x W x H): 21.8 x 9.2 x 11.1 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning	
Single Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>		
SCU24-0503SH	9...36	5.0	600	4	81	50	S8-2	
SCU24-1203SH	9...36	12.0	250	4	84	50	S8-2	
SCU24-1503SH	9...36	15.0	200	4	84	50	S8-2	
SCU24-3V303SH	9...36	3.3	700	4	79	50	S8-2	
SCU48-0503SH	18...72	5.0	600	3	82	50	S8-2	
SCU48-1203SH	18...72	12.0	250	5	85	50	S8-2	
SCU48-1503SH	18...72	15.0	200	5	84	50	S8-2	
SCU48-3V303SH	18...72	3.3	700	3	79	50	S8-2	
Dual Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>		
SCW05-0503DH	4.5...9	±5.0	±300	60	78	75	S8-2	
SCW05-1203DH	4.5...9	±12.0	±125	60	81	75	S8-2	
SCW05-1503DH	4.5...9	±15.0	±100	60	81	75	S8-2	
SCW12-0502DH	9...18	±5.0	±300	30	82	75	S8-2	
SCW12-1203DH	9...18	±12.0	±125	30	83	75	S8-2	
SCW12-1503DH	9...18	±15.0	±100	30	84	75	S8-2	
Standard Version:	ECU...03xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/A2 (d)		
Option:	ECU...03xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/A5 (d)		
	ECU...03xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/A5 (d)		

**3 Watt****SCW-Series, SIL-8****Single inline regulated DC/DC module**

- I/O isolation of 1'500 VDC
- Efficiency up to 86 %
- No derating up to 71 °C ambient temperature
- Continuous short circuit protection
- **Dimensions (L x W x H): 21.8 x 9.2 x 11.1 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
SCW05-3V303SH	4.5...9	3.3	700	60	73	75	S8-1
SCW05-0503SH	4.5...9	5.0	600	60	78	75	S8-1
SCW05-1203SH	4.5...9	12.0	250	60	81	75	S8-1
SCW05-1503SH	4.5...9	15.0	200	60	81	75	S8-1
SCW12-3V303SH	9...18	3.3	700	30	76	75	S8-1
SCW12-0503SH	9...18	5.0	600	30	81	75	S8-1
SCW12-1203SH	9...18	12.0	250	30	83	75	S8-1
SCW12-1503SH	9...18	15.0	200	30	84	75	S8-1
SCW24-3V303SH	18...36	3.3	700	18	77	75	S8-1
SCW24-0503SH	18...36	5.0	600	18	81	75	S8-1
SCW24-1203SH	18...36	12.0	250	18	84	75	S8-1
SCW24-1503SH	18...36	15.0	200	18	85	75	S8-1
SCW48-3V303SH	36...75	3.3	700	9	77	75	S8-1
SCW48-0503SH	36...75	5.0	600	9	81	75	S8-1
SCW48-1203SH	36...75	12.0	250	9	86	75	S8-1
SCW48-1503SH	36...75	15.0	200	9	86	75	S8-1
Dual Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
SCW05-0503DH	4.5...9	±5.0	±300	60	78	75	S8-2
SCW05-1203DH	4.5...9	±12.0	±125	60	81	75	S8-2
SCW05-1503DH	4.5...9	±15.0	±100	60	81	75	S8-2
SCW12-0502DH	9...18	±5.0	±300	30	82	75	S8-2
SCW12-1203DH	9...18	±12.0	±125	30	83	75	S8-2
SCW12-1503DH	9...18	±15.0	±100	30	84	75	S8-2
SCW24-0503DH	18...36	±5.0	±300	18	80	75	S8-2
SCW24-1203DH	18...36	±12.0	+125	18	84	75	S8-2
SCW24-1503DH	18...36	±15.0	+100	18	85	75	S8-2
SCW48-0503DH	36...75	±5.0	±300	9	81	75	S8-2
SCW48-1203DH	36...75	±12.0	±125	9	86	75	S8-2
SCW48-1503DH	36...75	±15.0	±100	9	86	75	S8-2

**3 Watt****UCW-Series, DIL-24****2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- EMC according to EN55022 Class B optional (Suffix -B)
- UL and cUL 1950 certified
- **Dimensions (L x W x H):**  
**Class A: 32 x 20 x 10.2 mm**  
**Class B: 32 x 20 x 12.7 mm**



Model	Uin	Uout	Iout	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
UCW05-0303SH	4.5...6.0	3.3	600	15.0	61	100	A4
UCW05-0503SH	4.5...6.0	5.0	600	15.0	70	100	A4
UCW05-1203SH	4.5...6.0	12.0	250	15.0	75	120	A4
UCW05-1503SH	4.5...6.0	15.0	200	15.0	75	150	A4
UCW12-0303SH	9...18	3.3	600	7.5	65	100	A4
UCW12-0503SH	9...18	5.0	600	7.5	73	100	A4
UCW12-1203SH	9...18	12.0	250	7.5	78	120	A4
UCW12-1503SH	9...18	15.0	200	7.5	78	150	A4
UCW24-0303SH	18...36	3.3	600	5.0	66	100	A4
UCW24-0503SH	18...36	5.0	600	5.0	74	100	A4
UCW24-1203SH	18...36	12.0	250	5.0	80	120	A4
UCW24-1503SH	18...36	15.0	200	5.0	80	150	A4
UCW48-0303SH	36...72	3.3	600	2.0	68	100	A4
UCW48-0503SH	36...72	5.0	600	2.0	76	100	A4
UCW48-1203SH	36...72	12.0	250	2.0	80	120	A4
UCW48-1503SH	36...72	15.0	200	2.0	80	150	A4
Dual Output	VDC	VDC	mA	mA	%	mVpp	
UCW05-0503DH	4.5...6.0	±5.0	±300	25.0	70	100	A5
UCW05-1203DH	4.5...6.0	±12.0	±125	25.0	75	120	A5
UCW05-1503DH	4.5...6.0	±15.0	±100	25.0	75	150	A5
UCW12-0503DH	9...18	±5.0	±300	12.0	73	100	A5
UCW12-1203DH	9...18	±12.0	±125	12.0	78	120	A5
UCW12-1503DH	9...18	±15.0	±100	12.0	78	150	A5
UCW24-0503DH	18...36	±5.0	±300	7.5	74	100	A5
UCW24-1203DH	18...36	±12.0	±125	7.5	80	120	A5
UCW24-1503DH	18...36	±15.0	±100	7.5	80	150	A5
UCW48-0503DH	36...72	±5.0	±300	3.0	76	100	A5
UCW48-1203DH	36...72	±12.0	±125	3.0	78	120	A5
UCW48-1503DH	36...72	±15.0	±100	3.0	78	150	A5
Standard Version:	UCW...03xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
Option:	UCW...03xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	
	UCW...03xB	B = EMC EN55022 Class B					

**5-6 Watt****ECU-Series, DIL-24****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 10.2 mm**

Model	Uin	Uout	Iout	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ECU24-0305SH	9...36	3.3	1000	15.0	72	100	A4
ECU24-0505SH	9...36	5.0	1000	15.0	78	100	A4
ECU24-1206SH	9...36	12.0	470	15.0	80	120	A4
ECU24-1506SH	9...36	15.0	400	15.0	80	150	A4
ECU48-0305SH	18...72	3.3	1000	7.5	70	100	A4
ECU48-0505SH	18...72	5.0	1000	7.5	78	100	A4
ECU48-1206SH	18...72	12.0	470	7.5	79	120	A4
ECU48-1506SH	18...72	15.0	400	7.5	80	150	A4
Dual Output	VDC	VDC	mA	mA	%	mVpp	
ECU24-0505DH	9...36	±5.0	±500	25.0	78	75	A5
ECU24-1206DH	9...36	±12.0	±230	25.0	80	120	A5
ECU24-1506DH	9...36	±15.0	±190	25.0	80	150	A5
ECU48-0505DH	18...72	±5.0	±500	12.0	77	75	A5
ECU48-1206DH	18...72	±12.0	±230	12.0	79	120	A5
ECU48-1506DH	18...72	±15.0	±190	12.0	80	150	A5
Standard Version:	ECU...06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
Option:	ECU...06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	

## 5-6 Watt

## ECU-Series, SMD



## 4:1 input voltage range DC/DC converter line with single or dual outputs

- I/O isolation of 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0305SH-S	9...36	3.3	1000	15.0	72	100	AS4
ECU24-0505SH-S	9...36	5.0	1000	15.0	78	100	AS4
ECU24-1206SH-S	9...36	12.0	470	15.0	80	120	AS4
ECU24-1506SH-S	9...36	15.0	400	15.0	80	150	AS4
ECU48-0305SH-S	18...72	3.3	1000	7.5	70	100	AS4
ECU48-0505SH-S	18...72	5.0	1000	7.5	78	100	AS4
ECU48-1206SH-S	18...72	12.0	470	7.5	79	120	AS4
ECU48-1506SH-S	18...72	15.0	400	7.5	80	150	AS4
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0505DH-S	9...36	±5.0	±500	25.0	78	75	AS5
ECU24-1206DH-S	9...36	±12.0	±230	25.0	80	120	AS5
ECU24-1506DH-S	9...36	±15.0	±190	25.0	80	150	AS5
ECU48-0505DH-S	18...72	±5.0	±500	12.0	77	75	AS5
ECU48-1206DH-S	18...72	±12.0	±230	12.0	79	120	AS5
ECU48-1506DH-S	18...72	±15.0	±190	12.0	80	150	AS5
Standard Version:	ECU...06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
Option:	ECU...06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	

## 5-6 Watt

## ECW-Series, DIL-24



## 2:1 input voltage range DC/DC converter line with single or dual outputs

- I/O isolation of 500 (Suffix M) 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Remote on/off control optional (Suffix T)
- Low output ripple and noise
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- EN55022 Class B optional (Suffix B)
- **Dimensions (L x W x H):**  
**Class A: 32 x 20 x 10.2 mm**  
**Class B: 32 x 20 x 12.7 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0305SM	9...18	3.3	1000	7.5	68	100	A1
ECW12-0505SM	9...18	5.0	1000	7.5	76	100	A1
ECW12-1206SM	9...18	12.0	470	7.5	80	120	A1
ECW12-1506SM	9...18	15.0	400	7.5	80	150	A1
ECW24-0305SM	18...36	3.3	1000	5.0	70	100	A1
ECW24-0505SM	18...36	5.0	1000	5.0	78	100	A1
ECW24-1206SM	18...36	12.0	470	5.0	82	120	A1
ECW24-1506SM	18...36	15.0	400	5.0	82	150	A1
ECW48-0305SM	36...72	3.3	1000	2.0	70	100	A1
ECW48-0505SM	36...72	5.0	1000	2.0	78	100	A1
ECW48-1206SM	36...72	12.0	470	2.0	81	120	A1
ECW48-1506SM	36...72	15.0	400	2.0	81	150	A1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0505DM	9...18	±5.0	±500	12.0	76	100	A2
ECW12-1206DM	9...18	±12.0	±230	12.0	80	120	A2
ECW12-1506DM	9...18	±15.0	±190	12.0	80	150	A2
ECW24-0505DM	18...36	±5.0	±500	7.5	78	100	A2
ECW24-1206DM	18...36	±12.0	±230	7.5	81	120	A2
ECW24-1506DM	18...36	±15.0	±190	7.5	81	150	A2
ECW48-0505DM	36...72	±5.0	±500	3.0	78	100	A2
ECW48-1206DM	36...72	±12.0	±230	3.0	81	120	A2
ECW48-1506DM	36...72	±15.0	±190	3.0	81	150	A2
Standard Version:	ECW...06xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	ECW...06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
	ECW...06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	
	ECW...06xB	B = EMC EN55022 Class B					
	ECW...06xBT	B = EMC EN55022 Class B & remote on/off ctrl, for 1'500 and 3'000 VDC only				Pinning see data sheet	



## 5-6 Watt

## ECW-Series, SMD



## 2:1 input voltage range DC/DC converter line with single or dual outputs

- I/O isolation of 500 (Suffix M) 1'500 (Suffix H) or 3'000 VDC (Suffix V)
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Remote on/off control optional (Suffix T)
- Low output ripple and noise
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW12-0305SM-S	9...18	3.3	1000	7.5	68	100	AS1
ECW12-0305SM-S	9...18	5.0	1000	7.5	76	100	AS1
ECW12-1206SM-S	9...18	12.0	470	7.5	80	120	AS1
ECW12-1506SM-S	9...18	15.0	400	7.5	80	150	AS1
ECW24-0305SM-S	18...36	3.3	1000	5.0	70	100	AS1
ECW24-0505SM-S	18...36	5.0	1000	5.0	78	100	AS1
ECW24-1206SM-S	18...36	12.0	470	5.0	82	120	AS1
ECW24-1506SM-S	18...36	15.0	400	5.0	82	150	AS1
ECW48-0305SM-S	36...72	3.3	1000	2.0	70	100	AS1
ECW48-0505SM-S	36...72	5.0	1000	2.0	78	100	AS1
ECW48-1206SM-S	36...72	12.0	470	2.0	81	120	AS1
ECW48-1506SM-S	36...72	15.0	400	2.0	81	150	AS1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW12-0505DM-S	9...18	±5.0	±500	12.0	76	100	AS2
ECW12-1206DM-S	9...18	±12.0	±230	12.0	80	120	AS2
ECW12-1506DM-S	9...18	±15.0	±190	12.0	80	150	AS2
ECW24-0505DM-S	18...36	±5.0	±500	7.5	78	100	AS2
ECW24-1206DM-S	18...36	±12.0	±230	7.5	81	120	AS2
ECW24-1506DM-S	18...36	±15.0	±190	7.5	81	150	AS2
ECW48-0505DM-S	36...72	±5.0	±500	3.0	78	100	AS2
ECW48-1206DM-S	36...72	±12.0	±230	3.0	81	120	AS2
ECW48-1506DM-S	36...72	±15.0	±190	3.0	81	150	AS2
Standard Version:	ECW...06xM	M = 500 VDC I/O isolation and metal case				Pinning A1 (s)/ A2 (d)	
Option:	ECW...06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
	ECW...06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	
	ECW...06xB	B = EMC EN55022 Class B					
	ECW...06xBT	B = EMC EN55022 Class B & remote on/off ctrl, for 1'500 and 3'000 VDC only				Pinning see data sheet	

## 5-6 Watt

## HCW-Series, DIL-24



## 2:1 input voltage range DC/DC converter line with single or dual outputs

- Very high efficiency up to 87 %
- I/O isolation of 1'500 VDC
- Under voltage lockout
- Continuous short circuit proof
- Over voltage protection
- Pi-filter at input
- EMC according to EN55022 Class A
- **Dimensions (LxWxH): 32 x 20 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
HCW12-0305SH	9...18	3.3	1200	20	77	100	A9
HCW12-0505SH	9...18	5.0	1000	20	81	100	A9
HCW12-1206SH	9...18	12.0	500	20	84	100	A9
HCW12-1506SH	9...18	15.0	400	20	85	100	A9
HCW24-0305SH	18...36	3.3	1200	5	79	100	A9
HCW24-0505SH	18...36	5.0	1000	5	83	100	A9
HCW24-1206SH	18...36	12.0	500	5	86	100	A9
HCW24-1506SH	18...36	15.0	400	5	87	100	A9
HCW48-0305SH	36...72	3.3	1200	3	79	100	A9
HCW48-0505SH	36...72	5.0	1000	3	83	100	A9
HCW48-1206SH	36...72	12.0	500	3	86	100	A9
HCW48-1506SH	36...72	15.0	400	3	87	100	A9
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
HCW12-0505DH	9...18	±5.0	±500	20	81	100	A10
HCW12-1206DH	9...18	±12.0	±250	20	85	100	A10
HCW12-1506DH	9...18	±15.0	±200	20	85	100	A10
HCW24-0505DH	18...36	±5.0	±500	5	83	100	A10
HCW24-1206DH	18...36	±12.0	±250	5	86	100	A10
HCW24-1506DH	18...36	±15.0	±200	5	87	100	A10
HCW48-0505DH	36...72	±5.0	±500	3	83	100	A10
HCW48-1206DH	36...72	±12.0	±250	3	86	100	A10
HCW48-1506DH	36...72	±15.0	±200	5	87	100	A10

## 5-6 Watt

## HCW-Series, SMD



## 2:1 input voltage range DC/DC converter line with single or dual output

- Very high efficiency up to 87%
- I/O isolation of 1'500 VDC
- Under voltage lockout
- Continuous short circuit proof
- Over voltage protection
- Pi-filter at input
- EMC according to EN55022 Class A
- **Dimensions (LxWxH): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
HCW12-0305SH-S	9...18	3.3	1200	20	77	100	AS9
HCW12-0505SH-S	9...18	5.0	1000	20	81	100	AS9
HCW12-1206SH-S	9...18	12.0	500	20	84	100	AS9
HCW12-1506SH-S	9...18	15.0	400	20	85	100	AS9
HCW24-0305SH-S	18...36	3.3	1200	5	79	100	AS9
HCW24-0505SH-S	18...36	5.0	1000	5	83	100	AS9
HCW24-1206SH-S	18...36	12.0	500	5	86	100	AS9
HCW24-1506SH-S	18...36	15.0	400	5	87	100	AS9
HCW48-0305SH-S	36...72	3.3	1200	3	79	100	AS9
HCW48-0505SH-S	36...72	5.0	1000	3	83	100	AS9
HCW48-1206SH-S	36...72	12.0	500	3	86	100	AS9
HCW48-1506SH-S	36...72	15.0	400	3	87	100	AS9
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
HCW12-0505DH-S	9...18	±5.0	±500	20	81	100	AS10
HCW12-1206DH-S	9...18	±12.0	±250	20	85	100	AS10
HCW12-1506DH-S	9...18	±15.0	±200	20	85	100	AS10
HCW24-0505DH-S	18...36	±5.0	±500	5	83	100	AS10
HCW24-1206DH-S	18...36	±12.0	±250	5	86	100	AS10
HCW24-1506DH-S	18...36	±15.0	±200	5	87	100	AS10
HCW48-0505DH-S	36...72	±5.0	±500	3	83	100	AS10
HCW48-1206DH-S	36...72	±12.0	±250	3	86	100	AS10
HCW48-1506DH-S	36...72	±15.0	±200	5	87	100	AS10

**5-6 Watt****UCW-Series, DIL-24****2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 1'500 (suffix H) or 3'000 VDC (suffix V)
- Continuous short circuit proof
- No derating up to 71 °C
- Pi filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- EMC according to EN55022 Class B optional (suffix B)
- UL and cUL 1950 certified
- **Dimensions (L x W x H):**  
**Class A: 32 x 20 x 10.2 mm**  
**Class B: 32 x 20 x 12.7 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>p-p</sub>	
UCW12-0305SH	9...18	3.3	1000	7.5	68	100	A4
UCW12-0505SH	9...18	5.0	1000	7.5	76	100	A4
UCW12-1206SH	9...18	12.0	470	7.5	80	120	A4
UCW12-1506SH	9...18	15.0	400	7.5	80	150	A4
UCW24-0305SH	18...36	3.3	1000	5.0	70	100	A4
UCW24-0505SH	18...36	5.0	1000	5.0	78	100	A4
UCW24-1206SH	18...36	12.0	470	5.0	82	120	A4
UCW24-1506SH	18...36	15.0	400	5.0	82	150	A4
UCW48-0305SH	36...72	3.3	1000	2.0	70	100	A4
UCW48-0505SH	36...72	5.0	1000	2.0	78	100	A4
UCW48-1206SH	36...72	12.0	470	2.0	81	120	A4
UCW48-1506SH	36...72	15.0	400	2.0	81	150	A4
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>p-p</sub>	
UCW12-0505DH	9...18	±5.0	±500	12.0	76	100	A5
UCW12-1206DH	9...18	±12.0	±230	12.0	80	120	A5
UCW12-1506DH	9...18	±15.0	±190	12.0	80	150	A5
UCW24-0505DH	18...36	±5.0	±500	7.5	78	100	A5
UCW24-1206DH	18...36	±12.0	±230	7.5	81	120	A5
UCW24-1506DH	18...36	±15.0	±190	7.5	81	150	A5
UCW48-0505DH	36...72	±5.0	±500	3.0	78	100	A5
UCW48-1206DH	36...72	±12.0	±230	3.0	81	120	A5
UCW48-1506DH	36...72	±15.0	±190	3.0	81	150	A5
Standard Version:	UCW...06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
Option:	UCW...06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	
	UCW...06xB	B = EMC EN55022 Class B					

**7.5 Watt****ECW-Series, 2x1"****2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class B
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (LxWxH): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>p-p</sub>	
ECW12-0307	9...18	3.3	1500	7.5	74	100	B1
ECW12-0507	9...18	5.1	1500	7.5	77	100	B1
ECW12-1207	9...18	12.0	625	7.5	80	120	B1
ECW12-1507	9...18	15.0	500	7.5	80	150	B1
ECW24-0307	18...36	3.3	1500	5.0	76	100	B1
ECW24-0507	18...36	5.1	1500	5.0	78	100	B1
ECW24-1207	18...36	12.0	625	5.0	82	120	B1
ECW24-1507	18...36	15.0	500	5.0	82	150	B1
ECW48-0307	36...72	3.3	1500	3.0	76	100	B1
ECW48-0507	36...72	5.1	1500	2.0	78	100	B1
ECW48-1207	36...72	12.0	625	2.0	81	120	B1
ECW48-1507	36...72	15.0	500	2.0	81	150	B1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>p-p</sub>	
ECW12-050507	9...18	±5.1	±750	7.5	76	100	B2
ECW12-121207	9...18	±12.0	±310	12.0	80	120	B2
ECW12-151507	9...18	±15.0	±250	12.0	80	150	B2
ECW24-050507	18...36	±5.1	±750	7.5	78	100	B2
ECW24-121207	18...36	±12.0	±310	7.5	81	120	B2
ECW24-151507	18...36	±15.0	±250	7.5	81	150	B2
ECW48-050507	36...72	±5.1	±750	3.0	78	100	B2
ECW48-121207	36...72	±12.0	±310	3.0	81	120	B2
ECW48-151507	36...72	±15.0	±250	3.0	81	150	B2
Option:	ECW...07T	T = remote on/off				Pinning see data sheet	

## 7.5 Watt

## ECW-Series, DIL-24


**2:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- No derating up to 71 °C
- Low output ripple and noise
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- UL and cUL1950 certified
- **Dimensions (L x W x H):**  
**32 x 20 x 10.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0308SH	9...18	3.3	1500	25	74	75	A4
ECW12-0508SH	9...18	5.0	1500	25	78	75	A4
ECW12-1208SH	9...18	12.0	625	25	82	100	A4
ECW12-1508SH	9...18	15.0	500	25	82	100	A4
ECW24-0308SH	18...36	3.3	1500	20	76	75	A4
ECW24-0508SH	18...36	5.0	1500	20	79	75	A4
ECW24-1208SH	18...36	12.0	625	20	82	100	A4
ECW24-1508SH	18...36	15.0	500	20	82	100	A4
ECW48-0308SH	36...72	3.3	1500	10	76	75	A4
ECW48-0508SH	36...72	5.0	1500	10	80	75	A4
ECW48-1208SH	36...72	12.0	625	10	82	100	A4
ECW48-1508SH	36...72	15.0	500	10	82	100	A4
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0508DH	9...18	±5.0	±750	30	79	75	A5
ECW12-1208DH	9...18	±12.0	±310	30	83	100	A5
ECW12-1508DH	9...18	±15.0	±250	30	83	100	A5
ECW24-0508DH	18...36	±5.0	±750	25	81	75	A5
ECW24-1208DH	18...36	±12.0	±310	25	83	100	A5
ECW24-1508DH	18...36	±15.0	±250	25	83	100	A5
ECW48-0508DH	36...72	±5.0	±750	15	81	75	A5
ECW48-1208DH	36...72	±12.0	±310	15	83	100	A5
ECW48-1508DH	36...72	±15.0	±250	15	83	100	A5

## 7.5 Watt

## ECW-Series, SMD


**2:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- No derating up to 71 °C
- Low output ripple and noise
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- UL and cUL1950 certified
- **Dimensions (L x W x H):**  
**32 x 20 x 11.4 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0308SH-S	9...18	3.3	1500	25	74	75	AS4
ECW12-0508SH-S	9...18	5.0	1500	25	78	75	AS4
ECW12-1208SH-S	9...18	12.0	625	25	82	100	AS4
ECW12-1508SH-S	9...18	15.0	500	25	82	100	AS4
ECW24-0308SH-S	18...36	3.3	1500	20	76	75	AS4
ECW24-0508SH-S	18...36	5.0	1500	20	79	75	AS4
ECW24-1208SH-S	18...36	12.0	625	20	82	100	AS4
ECW24-1508SH-S	18...36	15.0	500	20	82	100	AS4
ECW48-0308SH-S	36...72	3.3	1500	10	76	75	AS4
ECW48-0508SH-S	36...72	5.0	1500	10	80	75	AS4
ECW48-1208SH-S	36...72	12.0	625	10	82	100	AS4
ECW48-1508SH-S	36...72	15.0	500	10	82	100	AS4
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0508DH-S	9...18	±5.0	±750	30	79	75	AS5
ECW12-1208DH-S	9...18	±12.0	±310	30	83	100	AS5
ECW12-1508DH-S	9...18	±15.0	±250	30	83	100	AS5
ECW24-0508DH-S	18...36	±5.0	±750	25	81	75	AS5
ECW24-1208DH-S	18...36	±12.0	±310	25	83	100	AS5
ECW24-1508DH-S	18...36	±15.0	±250	25	83	100	AS5
ECW48-0508DH-S	36...72	±5.0	±750	15	81	75	AS5
ECW48-1208DH-S	36...72	±12.0	±310	15	83	100	AS5
ECW48-1508DH-S	36...72	±15.0	±250	15	83	100	AS5

**8 Watt****ECU-Series****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0308SH	9...36	3.3	2000	10	80	75	A9
ECU24-0508SH	9...36	5.0	1600	10	82	75	A9
ECU24-1208SH	9...36	12.0	666	10	85	100	A9
ECU24-1508SH	9...36	15.0	530	10	85	100	A9
ECU48-0308SH	18...72	3.3	2000	5	80	75	A9
ECU48-0508SH	18...72	5.0	1600	5	83	75	A9
ECU48-1208SH	18...72	12.0	666	5	86	100	A9
ECU48-1508SH	18...72	15.0	530	5	86	100	A9
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0508DH	9...36	± 5.0	± 800	10	82	75	A10
ECU24-1208DH	9...36	± 12.0	± 333	10	85	100	A10
ECU24-1508DH	9...36	± 15.0	± 265	10	85	100	A10
ECU48-0508DH	18...72	± 5.0	± 800	5	83	75	A10
ECU48-1208DH	18...72	± 12.0	± 333	5	86	100	A10
ECU48-1508DH	18...72	± 15.0	± 265	5	86	100	A10
Standard Version:	ECU...-.06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
Option:	ECU...-.06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	

**8 Watt****ECU-Series, SMD****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded or non conductive plastic case
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0308SH-S	9...36	3.3	2000	10	80	75	AS9
ECU24-0508SH-S	9...36	5.0	1600	10	82	75	AS9
ECU24-1208SH-S	9...36	12.0	666	10	85	100	AS9
ECU24-1508SH-S	9...36	15.0	530	10	85	100	AS9
ECU48-0308SH-S	18...72	3.3	2000	5	80	75	AS9
ECU48-0508SH-S	18...72	5.0	1600	5	83	75	AS9
ECU48-1208SH-S	18...72	12.0	666	5	86	100	AS9
ECU48-1508SH-S	18...72	15.0	530	5	86	100	AS9
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0508DH-S	9...36	± 5.0	± 800	10	82	75	AS10
ECU24-1208DH-S	9...36	± 12.0	± 333	10	85	100	AS10
ECU24-1508DH-S	9...36	± 15.0	± 265	10	85	100	AS10
ECU48-0508DH-S	18...72	± 5.0	± 800	5	83	75	AS10
ECU48-1208DH-S	18...72	± 12.0	± 333	5	86	100	AS10
ECU48-1508DH-S	18...72	± 15.0	± 265	5	86	100	AS10
Standard Version:	ECU...-.06xH	H = 1'500 VDC I/O isolation and metal case				Pinning A4 (s)/ A5 (d)	
Option:	ECU...-.06xV	V = 3'000 VDC I/O isolation and plastic case				Pinning A4 (s)/ A5 (d)	

**10 Watt****ECU-Series****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class A
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0310	9...36	3.3	2000	15	76	75	B1
ECU24-0510	9...36	5.1	2000	15	77	75	B1
ECU24-1210	9...36	12.0	830	15	80	75	B1
ECU24-1510	9...36	15.0	666	15	80	75	B1
ECU48-0310	18...72	3.3	2000	15	76	75	B1
ECU48-0510	18...72	5.1	2000	10	78	75	B1
ECU48-1210	18...72	12.0	830	10	80	75	B1
ECU48-1510	18...72	15.0	666	10	80	75	B1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-050510	9...36	± 5.1	± 1000	20	80	75	B2
ECU24-121210	9...36	± 12.0	± 415	20	80	75	B2
ECU24-151510	9...36	± 15.0	± 333	20	80	75	B2
ECU48-050510	18...72	± 5.1	± 1000	15	82	75	B2
ECU48-121210	18...72	± 12.0	± 415	15	82	75	B2
ECU48-151510	18...72	± 15.0	± 333	15	82	75	B2

Upon request a version with 1'500 VDC isolation voltage is available

**10 Watt****ECU-Series, 1x1"****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency up to 86 %
- Remote on/off function
- Fixed switching frequency
- Regulated outputs
- Input under voltage protection
- **Dimensions (L x W x H): 25.4 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0510SB	9...36	5.0	2000	10	83	75	SB1
ECU24-1210SB	9...36	12.0	835	10	85	100	SB1
ECU24-1510SB	9...36	15.0	666	10	85	100	SB1
ECU24-3V310SB	9...36	3.3	2500	10	82	75	SB1
ECU48-0510SB	18...72	5.0	2000	5	84	75	SB1
ECU48-1210SB	18...72	12.0	835	5	86	100	SB1
ECU48-1510SB	18...72	15.0	666	5	86	100	SB1
ECU48-3V310SB	18...72	3.3	2500	5	83	75	SB1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-050510SB	9...36	± 5.0	± 1000	10	84	75	SB2
ECU24-121210SB	9...36	± 12.0	± 416	10	85	100	SB2
ECU24-151510SB	9...36	± 12.0	± 333	10	85	100	SB2
ECU48-050510SB	18...72	± 5.0	± 1000	5	84	75	SB2
ECU48-121210SB	18...72	± 12.0	± 416	5	86	100	SB2
ECU48-151510SB	18...72	± 12.0	± 333	5	86	100	SB2

**10 Watt****ECW-Series****2:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class A
- Pi-filter at input
- Low silhouette
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW05-0510	4.7...9	5.1	1600	15	75	100	B1
ECW05-1210	4.7...9	12.0	666	15	76	100	B1
ECW05-1510	4.7...9	15.0	533	15	76	100	B1
ECW12-0510	9...18	5.1	2000	30	76	100	B1
ECW12-1210	9...18	12.0	830	30	78	100	B1
ECW12-1510	9...18	15.0	666	30	78	100	B1
ECW24-0510	18...36	5.1	2000	20	78	100	B1
ECW24-1210	18...36	12.0	830	20	80	100	B1
ECW24-1510	18...36	15.0	666	20	80	100	B1
ECW48-0510	36...72	5.1	2000	10	80	100	B1
ECW48-1210	36...72	12.0	830	10	82	100	B1
ECW48-1510	36...72	15.0	666	10	82	100	B1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mVpp	
ECW05-050510	4.7...9.0	±5.1	±800	15	76	100	B2
ECW05-121210	4.7...9.0	±12.0	±333	15	76	100	B2
ECW05-151510	4.7...9.0	±15.0	±266	15	76	100	B2
ECW12-050510	9...18	±5.1	±1000	40	78	100	B2
ECW12-121210	9...18	±12.0	±415	40	78	100	B2
ECW12-151510	9...18	±15.0	±333	40	78	100	B2
ECW24-050510	18...36	±5.1	±1000	20	80	100	B2
ECW24-121210	18...36	±12.0	±415	20	80	100	B2
ECW24-151510	18...36	±15.0	±333	20	80	100	B2
ECW48-050510	36...72	±5.1	±1000	10	82	100	B2
ECW48-121210	36...72	±12.0	±415	10	82	100	B2
ECW48-151510	36...72	±15.0	±333	10	82	100	B2

Upon request a version with 1'500 VDC isolation voltage is available



## 10 Watt

## ECW-Series, 1x1"



## 2:1 input voltage range DC/DC converter line

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- Input under-voltage Protection
- Remote on/off
- Over Current Protection
- **Dimensions (L x W x H): 25.4 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ECW05-0310SB	4.7...9	3.3	2500	120	83	50	SB1
ECW05-0510SB	4.7...9	5.0	2000	120	85	50	SB1
ECW05-1210SB	4.7...9	12.0	833	50	87	50	SB1
ECW05-1510SB	4.7...9	15.0	666	50	87	50	SB1
ECW12-0310SB	9...18	3.3	2500	30	82	50	SB1
ECW12-0510SB	9...18	5.0	2000	30	85	50	SB1
ECW12-1210SB	9...18	12.0	833	30	87	50	SB1
ECW12-1510SB	9...18	15.0	666	35	87	50	SB1
ECW24-0310SB	18...36	3.3	2500	20	82	50	SB1
ECW24-0510SB	18...36	5.0	2000	20	85	50	SB1
ECW24-1210SB	18...36	12.0	833	20	87	50	SB1
ECW24-1510SB	18...36	15.0	666	20	87	50	SB1
ECW48-0310SB	36...72	3.3	2500	20	81	50	SB1
ECW48-0510SB	36...72	5.0	2000	20	85	50	SB1
ECW48-1210SB	36...72	12.0	833	20	87	50	SB1
ECW48-1510SB	36...72	15.0	666	20	87	50	SB1
Dual Output	VDC	VDC	mA	mA	%	mVpp	
ECW05-0510DB	4.7...9	±5.0	±1000	50	84	50	SB2
ECW05-1210DB	4.7...9	±12.0	±416	50	87	50	SB2
ECW05-1510DB	4.7...9	±15.0	±333	50	87	50	SB2
ECW12-0510DB	9...18	±5.0	±1000	45	85	50	SB2
ECW12-1210DB	9...18	±12.0	±416	45	87	50	SB2
ECW12-1510DB	9...18	±15.0	±333	45	87	50	SB2
ECW24-0510DB	18...36	±5.0	±1000	30	85	50	SB2
ECW24-1210DB	18...36	±12.0	±416	25	87	50	SB2
ECW24-1510DB	18...36	±15.0	±333	25	87	50	SB2
ECW48-0510DB	36...72	±5.0	±1000	20	85	50	SB2
ECW48-1210DB	36...72	±12.0	±416	20	87	50	SB2
ECW48-1510DB	36...72	±15.0	±333	20	87	50	SB2

## 10 Watt

## ECW-Series, 1x1" SMD



## 2:1 input voltage range DC/DC converter line

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- Input under-voltage Protection
- Remote on/off
- Over Current Protection
- **Dimensions (L x W x H): 25.4 x 25.4 x 9.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ECW05-0310SB-S	4.7...9	3.3	2500	120	83	50	SBS1
ECW05-0510SB-S	4.7...9	5.0	2000	120	85	50	SBS1
ECW05-1210SB-S	4.7...9	12.0	833	50	87	50	SBS1
ECW05-1510SB-S	4.7...9	15.0	666	50	87	50	SBS1
ECW12-0310SB-S	9...18	3.3	2500	30	82	50	SBS1
ECW12-0510SB-S	9...18	5.0	2000	30	85	50	SBS1
ECW12-1210SB-S	9...18	12.0	833	30	87	50	SBS1
ECW12-1510SB-S	9...18	15.0	666	35	87	50	SBS1
ECW24-0310SB-S	18...36	3.3	2500	20	82	50	SBS1
ECW24-0510SB-S	18...36	5.0	2000	20	85	50	SBS1
ECW24-1210SB-S	18...36	12.0	833	20	87	50	SBS1
ECW24-1510SB-S	18...36	15.0	666	20	87	50	SBS1
ECW48-0310SB-S	36...72	3.3	2500	20	81	50	SBS1
ECW48-0510SB-S	36...72	5.0	2000	20	85	50	SBS1
ECW48-1210SB-S	36...72	12.0	833	20	87	50	SBS1
ECW48-1510SB-S	36...72	15.0	666	20	87	50	SBS1
Dual Output	VDC	VDC	mA	mA	%	mVpp	
ECW05-0510DB-S	4.7...9	±5.0	±1000	50	84	50	SBS2
ECW05-1210DB-S	4.7...9	±12.0	±416	50	87	50	SBS2
ECW05-1510DB-S	4.7...9	±15.0	±333	50	87	50	SBS2
ECW12-0510DB-S	9...18	±5.0	±1000	45	85	50	SBS2
ECW12-1210DB-S	9...18	±12.0	±416	45	87	50	SBS2
ECW12-1510DB-S	9...18	±15.0	±333	45	87	50	SBS2
ECW24-0510DB-S	18...36	±5.0	±1000	30	85	50	SBS2
ECW24-1210DB-S	18...36	±12.0	±416	25	87	50	SBS2
ECW24-1510DB-S	18...36	±15.0	±333	25	87	50	SBS2
ECW48-0510DB-S	36...72	±5.0	±1000	20	85	50	SBS2
ECW48-1210DB-S	36...72	±12.0	±416	20	87	50	SBS2
ECW48-1510DB-S	36...72	±15.0	±333	20	87	50	SBS2

## 10 Watt

## ECW-Series, DIL-24


**2:1 input voltage range DC/DC converter line with single or dual output**

- Very high efficiency up to 89 %
- I/O isolation of 1'500 VDC
- No tantalum capacitors
- High power density
- Continuous short circuit proof
- Derating from 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class A
- UL and cUL 60950 certified
- Pi-filter at input
- Metal case with non conductive base plate
- **Dimensions (L x W x H): 32 x 20 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ECW12-2V510ASH	9...18	2.5	3000	40	83	75	A9
ECW12-3V310ASH	9...18	3.3	3000	40	85	75	A9
ECW12-0510ASH	9...18	5.0	2000	40	87	75	A9
ECW12-1210ASH	9...18	12.0	835	40	88	75	A9
ECW12-1510ASH	9...18	15.0	666	40	88	75	A9
ECW24-2V510ASH	18...36	2.5	3000	30	85	75	A9
ECW24-3V310ASH	18...36	3.3	3000	30	86	75	A9
ECW24-0510ASH	18...36	5.0	2000	30	88	75	A9
ECW24-1210ASH	18...36	12.0	835	30	89	75	A9
ECW24-1510ASH	18...36	15.0	666	30	89	75	A9
ECW48-2V510ASH	36...72	2.5	3000	15	85	75	A9
ECW48-3V310ASH	36...72	3.3	3000	15	86	75	A9
ECW48-0510ASH	36...72	5.0	2000	15	87	75	A9
ECW48-1210ASH	36...72	12.0	835	15	89	75	A9
ECW48-1510ASH	36...72	15.0	666	15	88	75	A9
Dual Output	VDC	VDC	mA	mA	%	mVpp	
ECW12-1210ADH	9...18	±12.0	±416	20	87	100	A10
ECW12-1510ADH	9...18	±15.0	±333	20	86	100	A10
ECW24-1210ADH	18...36	±12.0	±416	20	88	100	A10
ECW24-1510ADH	18...36	±15.0	±333	20	87	100	A10
ECW48-1210ADH	36...72	±12.0	±416	10	88	100	A10
ECW48-1510ADH	36...72	±15.0	±333	10	87	100	A10

## 10 Watt

## ECW-Series, SMD


**2:1 input voltage range DC/DC converter line with single or dual output**

- Very high efficiency up to 89 %
- I/O isolation of 1'500 VDC
- No tantalum capacitors
- High power density
- Continuous short circuit proof
- Derating from 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class A
- UL and cUL 60950 certified
- Pi-filter at input
- Metal case with non conductive base plate
- **Dimensions (L x W x H): 32 x 20 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
ECW12-2V510ASH-S	9...18	2.5	3000	40	83	75	AS9
ECW12-3V310ASH-S	9...18	3.3	3000	40	85	75	AS9
ECW12-0510ASH-S	9...18	5.0	2000	40	87	75	AS9
ECW12-1210ASH-S	9...18	12.0	835	40	88	75	AS9
ECW12-1510ASH-S	9...18	15.0	666	40	88	75	AS9
ECW24-2V510ASH-S	18...36	2.5	3000	30	85	75	AS9
ECW24-3V310ASH-S	18...36	3.3	3000	30	86	75	AS9
ECW24-0510ASH-S	18...36	5.0	2000	30	88	75	AS9
ECW24-1210ASH-S	18...36	12.0	835	30	89	75	AS9
ECW24-1510ASH-S	18...36	15.0	666	30	89	75	AS9
ECW48-2V510ASH-S	36...72	2.5	3000	15	85	75	AS9
ECW48-3V310ASH-S	36...72	3.3	3000	15	86	75	AS9
ECW48-0510ASH-S	36...72	5.0	2000	15	87	75	AS9
ECW48-1210ASH-S	36...72	12.0	835	15	89	75	AS9
ECW48-1510ASH-S	36...72	15.0	666	15	88	75	AS9
Dual Output	VDC	VDC	mA	mA	%	mVpp	
ECW12-1210ADH-S	9...18	±12.0	±416	20	87	100	AS10
ECW12-1510ADH-S	9...18	±15.0	±333	20	86	100	AS10
ECW24-1210ADH-S	18...36	±12.0	±416	20	88	100	AS10
ECW24-1510ADH-S	18...36	±15.0	±333	20	87	100	AS10
ECW48-1210ADH-S	36...72	±12.0	±416	10	88	100	AS10
ECW48-1510ADH-S	36...72	±15.0	±333	10	87	100	AS10

**10 Watt****UCW-Series****2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class A
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- UL and cUL 1950 certified
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
UCW12-0510	9...18	5.1	2000	30	76	100	B1
UCW12-1210	9...18	12.0	830	30	78	100	B1
UCW12-1510	9...18	15.0	666	30	78	100	B1
UCW24-0510	18...36	5.1	2000	20	78	100	B1
UCW24-1210	18...36	12.0	830	20	80	100	B1
UCW24-1510	18...36	15.0	666	20	80	100	B1
UCW48-0510	36...72	5.1	2000	10	80	100	B1
UCW48-1210	36...72	12.0	830	10	82	100	B1
UCW48-1510	36...72	15.0	666	10	82	100	B1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
UCW12-050510	9...18	±5.1	±1000	40	78	100	B2
UCW12-121210	9...18	±12.0	±415	40	78	100	B2
UCW12-151510	9...18	±15.0	±333	40	78	100	B2
UCW24-050510	18...36	±5.1	±1000	20	80	100	B2
UCW24-121210	18...36	±12.0	±415	20	80	100	B2
UCW24-151510	18...36	±15.0	±333	20	80	100	B2
UCW48-050510	36...72	±5.1	±1000	10	82	100	B2
UCW48-121210	36...72	±12.0	±415	10	82	100	B2
UCW48-151510	36...72	±15.0	±333	10	82	100	B2

**15 Watt****ECU-Series, 1x1"****4:1 input voltage range DC/DC converter line with single or dual outputs**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency up to 88 %
- Remote on/off function
- Fixed switching frequency
- Regulated outputs
- Input under voltage protection
- **Dimensions (L x W x H): 25.4 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECU24-3V315SB	9...36	3.3	4000	50	85	75	SB1
ECU24-0515SB	9...36	5.0	3000	50	87	75	SB1
ECU24-1215SB	9...36	12.0	1250	50	87	100	SB1
ECU24-1515SB	9...36	15.0	1000	50	87	100	SB1
ECU48-3V315SB	18...72	3.3	4000	25	86	75	SB1
ECU48-0515SB	18...72	5.0	3000	25	88	75	SB1
ECU48-1215SB	18...72	12.0	1250	25	88	100	SB1
ECU48-1515SB	18...72	15.0	1000	25	88	100	SB1
<b>Dual Output</b>							
	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECU24-050515SB	9...36	±5.0	±1500	50	87	75	SB2
ECU24-121215SB	9...36	±12.0	±625	50	87	100	SB2
ECU24-151515SB	9...36	±15.0	±500	50	88	100	SB2
ECU48-050515SB	18...72	±5.0	±1500	25	88	75	SB2
ECU48-121215SB	18...72	±12.0	±625	25	88	100	SB2
ECU48-151515SB	18...72	±15.0	±500	25	88	100	SB2

## 15 Watt

## ECU-Series, 1x1" SMD



## 4:1 input voltage range DC/DC converter line with single or dual outputs

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency up to 88 %
- Remote on/off function
- Fixed switching frequency
- Regulated outputs
- Input under voltage protection
- **Dimensions (L x W x H): 25.4 x 25.4 x 12 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-3V315SB-S	9...36	3.3	4000	50	85	75	SBS1
ECU24-0515SB-S	9...36	5.0	3000	50	87	75	SBS1
ECU24-1215SB-S	9...36	12.0	1250	50	87	100	SBS1
ECU24-1515SB-S	9...36	15.0	1000	50	87	100	SBS1
ECU48-3V315SB-S	18...72	3.3	4000	25	86	75	SBS1
ECU48-0515SB-S	18...72	5.0	3000	25	88	75	SBS1
ECU48-1215SB-S	18...72	12.0	1250	25	88	100	SBS1
ECU48-1515SB-S	18...72	15.0	1000	25	88	100	SBS1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-050515SB-S	9...36	±5.0	±1500	50	87	75	SBS2
ECU24-121215SB-S	9...36	±12.0	±625	50	87	100	SBS2
ECU24-151515SB-S	9...36	±15.0	±500	50	88	100	SBS2
ECU48-050515SB-S	18...72	±5.0	±1500	25	88	75	SBS2
ECU48-121215SB-S	18...72	±12.0	±625	25	88	100	SBS2
ECU48-151515SB-S	18...72	±15.0	±500	25	88	100	SBS2

## 15 Watt

## ECU-Series, 2x2"



## 4:1 input voltage range DC/DC converter with up to 3 outputs

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- Remote on/off control
- External output voltage adjustment ±10 %
- No derating up to 71 °C
- Low output ripple and noise
- Pi-filter at input
- Low silhouette
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (L x W x H): 50.8 x 50.8 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0315	9...36	3.3	3000	15	76	75	C5
ECU24-0515	9...36	5.1	3000	15	77	75	C5
ECU24-1215	9...36	12.0	1250	15	80	75	C5
ECU24-1515	9...36	15.0	1000	15	80	75	C5
ECU48-0315	18...72	3.3	3000	10	76	75	C5
ECU48-0515	18...72	5.1	3000	10	77	75	C5
ECU48-1215	18...72	12.0	1250	10	80	75	C5
ECU48-1515	18...72	15.0	1000	10	80	75	C5
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-050515	9...36	±5.1	±1500	20	77	75	C6
ECU24-121215	9...36	±12.0	±625	20	80	75	C6
ECU24-151515	9...36	±15.0	±500	20	80	75	C6
ECU48-050515	18...72	±5.1	±1500	15	79	75	C6
ECU48-121215	18...72	±12.0	±625	15	82	75	C6
ECU48-151515	18...72	±15.0	±500	15	82	75	C6
<b>Triple Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-512T15	9...36	5.1/±12.0	1500/±310	20	80	75	C7
ECU24-515T15	9...36	5.1/±15.0	1500/±250	20	80	75	C7
ECU48-512T15	18...72	5.1/±12.0	1500/±310	15	82	75	C7
ECU48-515T15	18...72	5.1/±15.0	1500/±250	15	82	75	C7

## 15 Watt

## ECW-Series, 1x1"



## 2:1 input voltage range DC/DC converter line

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Input under-voltage Protection
- Over Current Protection
- Remote on/off
- Dimensions (L x W x H): 25.4 x 25.4 x 10.2 mm

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0315SB	9...18	3.3	4000	90	85	50	SB1
ECW12-0515SB	9...18	5.0	3000	85	88	50	SB1
ECW12-1215SB	9...18	12.0	1250	70	88	50	SB1
ECW12-1515SB	9...18	12.0	1000	70	88	50	SB1
ECW24-0315SB	18...36	3.3	4000	50	86	50	SB1
ECW24-0515SB	18...36	5.0	3000	50	89	50	SB1
ECW24-1215SB	18...36	12.0	1250	20	90	50	SB1
ECW24-1515SB	18...36	15.0	1000	20	90	50	SB1
ECW48-0315SB	36...72	3.3	4000	25	86	50	SB1
ECW48-0515SB	36...72	5.0	3000	30	88	50	SB1
ECW48-1215SB	36...72	12.0	1250	20	90	50	SB1
ECW48-1515SB	36...72	15.0	1000	20	90	50	SB1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-050515SB	9...18	±5.0	±1500	45	85	50	SB2
ECW12-121215SB	9...18	±12.0	±625	45	87	50	SB2
ECW12-151515SB	9...18	±12.0	±500	45	88	50	SB2
ECW24-050515SB	18...36	±5.0	±1500	25	86	50	SB2
ECW24-121215SB	18...36	±12.0	±625	25	88	50	SB2
ECW24-151515SB	18...36	±15.0	±500	25	89	50	SB2
ECW48-050515SB	36...75	±5.0	±1500	20	86	50	SB2
ECW48-121215SB	36...75	±12.0	±625	20	88	50	SB2
ECW48-151515SB	36...75	±15.0	±500	20	89	50	SB2

## 15 Watt

## ECW-Series, 1x1" SMD



## 2:1 input voltage range DC/DC converter line

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Input under-voltage Protection
- Over Current Protection
- Remote on/off
- Dimensions (L x W x H): 25.4 x 25.4 x 9.2 mm

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0315SB-S	9...18	3.3	4000	90	85	120	SBS1
ECW12-0515SB-S	9...18	5.0	3000	85	88	120	SBS1
ECW12-1215SB-S	9...18	12.0	1250	70	88	120	SBS1
ECW12-1515SB-S	9...18	12.0	1000	70	88	120	SBS1
ECW24-0315SB-S	18...36	3.3	4000	50	86	120	SBS1
ECW24-0515SB-S	18...36	5.0	3000	50	89	120	SBS1
ECW24-1215SB-S	18...36	12.0	1250	20	90	120	SBS1
ECW24-1515SB-S	18...36	15.0	1000	20	90	120	SBS1
ECW48-0315SB-S	36...72	3.3	4000	25	86	120	SBS1
ECW48-0515SB-S	36...72	5.0	3000	30	88	120	SBS1
ECW48-1215SB-S	36...72	12.0	1250	20	90	120	SBS1
ECW48-1515SB-S	36...72	15.0	1000	20	90	120	SBS1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-050515SB-S	9...18	±5.0	±1500	45	85	120	SBS2
ECW12-121215SB-S	9...18	±12.0	±625	45	87	120	SBS2
ECW12-151515SB-S	9...18	±12.0	±500	45	88	120	SBS2
ECW24-050515SB-S	18...36	±5.0	±1500	25	86	120	SBS2
ECW24-121215SB-S	18...36	±12.0	±625	25	88	120	SBS2
ECW24-151515SB-S	18...36	±15.0	±500	25	89	120	SBS2
ECW48-050515SB-S	36...75	±5.0	±1500	20	86	120	SBS2
ECW48-121215SB-S	36...75	±12.0	±625	20	88	120	SBS2
ECW48-151515SB-S	36...75	±15.0	±500	20	89	120	SBS2

## 15 Watt

## ECW-Series, 2x1"


**2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Remote on/off control optional
- External output voltage adjustment  $\pm 10\%$  optional
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECW12-0315B	9...18	3.3	3000	20	76	100	B1
ECW12-0515B	9...18	5.1	3000	20	77	100	B1
ECW12-1215B	9...18	12.0	1250	20	80	100	B1
ECW12-1515B	9...18	15.0	1000	20	80	100	B1
ECW24-0315B	18...36	3.3	3000	20	76	100	B1
ECW24-0515B	18...36	5.1	3000	20	78	100	B1
ECW24-1215B	18...36	12.0	1250	20	80	100	B1
ECW24-1515B	18...36	15.0	1000	20	80	100	B1
ECW48-0315B	36...72	3.3	3000	10	76	100	B1
ECW48-0515B	36...72	5.1	3000	10	80	100	B1
ECW48-1215B	36...72	12.0	1250	10	82	100	B1
ECW48-1515B	36...72	15.0	1000	10	82	100	B1
Dual Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECW12-050515B	9...18	$\pm 5.1$	$\pm 1500$	30	80	100	B2
ECW12-121215B	9...18	$\pm 12.0$	$\pm 625$	30	80	100	B2
ECW12-151515B	9...18	$\pm 15.0$	$\pm 500$	30	80	100	B2
ECW24-050515B	18...36	$\pm 5.1$	$\pm 1500$	30	80	100	B2
ECW24-121215B	18...36	$\pm 12.0$	$\pm 625$	30	80	100	B2
ECW24-151515B	18...36	$\pm 15.0$	$\pm 500$	30	80	100	B2
ECW48-050515B	36...72	$\pm 5.1$	$\pm 1500$	15	82	100	B2
ECW48-121215B	36...72	$\pm 12.0$	$\pm 625$	15	82	100	B2
ECW48-151515B	36...72	$\pm 15.0$	$\pm 500$	15	82	100	B2
Option:	ECW...15BT	T = remote on/off				Pinning see data sheet	
	ECW...15BA	A = ext. output voltage adjustment $\pm 10\%$ , only for single output				Pinning see data sheet	

## 15 Watt

## ECW-Series, 2x2"


**2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class B
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (L x W x H): 50.8 x 50.8 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECW12-0315	9...18	3.3	3000	30	70	75	C1
ECW12-0515	9...18	5.1	3000	30	75	75	C1
ECW12-1215	9...18	12.0	1250	30	78	75	C1
ECW12-1515	9...18	15.0	1000	30	78	75	C1
ECW24-0315	18...36	3.3	3000	15	74	75	C1
ECW24-0515	18...36	5.1	3000	15	78	75	C1
ECW24-1215	18...36	12.0	1250	15	81	75	C1
ECW24-1515	18...36	15.0	1000	15	81	75	C1
ECW48-0315	36...72	3.3	3000	10	76	75	C1
ECW48-0515	36...72	5.1	3000	10	80	75	C1
ECW48-1215	36...72	12.0	1250	15	82	75	C1
ECW48-1515	36...72	15.0	1000	15	82	75	C1
Dual Output	VDC	VDC	mA	mA	%	mV <sub>pp</sub>	
ECW12-050515	9...18	$\pm 5.1$	$\pm 1500$	35	77	75	C2
ECW12-121215	9...18	$\pm 12.0$	$\pm 625$	35	77	75	C2
ECW12-151515	9...18	$\pm 15.0$	$\pm 500$	35	77	75	C2
ECW24-050515	18...36	$\pm 5.1$	$\pm 1500$	25	80	75	C2
ECW24-121215	18...36	$\pm 12.0$	$\pm 625$	25	80	75	C2
ECW24-151515	18...36	$\pm 15.0$	$\pm 500$	25	80	75	C2
ECW48-050515	36...72	$\pm 5.1$	$\pm 1500$	20	81	75	C2
ECW48-121215	36...72	$\pm 12.0$	$\pm 625$	20	81	75	C2
ECW48-151515	36...72	$\pm 15.0$	$\pm 500$	20	81	75	C2
Option:	ECW...15BT	T = remote on/off				Pinning see data sheet	
	ECW...15BA	A = ext. output voltage adjustment $\pm 10\%$ , only for single output				Pinning see data sheet	



**15 Watt****OCW-Series, 1x1"****2:1 input voltage range open frame DC/DC converter line**

- High efficiency up to 89 %
- Very low profile
- I/O isolation of 2'250 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- Pi-filter at input
- Suffix -N for negative remote on/off logic
- **Dimensions (L x W x H): 27.9 x 24.4 x 9.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
OCW24-0315SB	18...36	3.3	4.00	30	84	100	SB1
OCW24-0515SB	18...36	5.0	3.00	30	85	100	SB1
OCW24-1215SB	18...36	12.0	1.25	40	87	100	SB1
OCW24-1515SB	18...36	15.0	1.00	40	87	100	SB1
OCW48-0315SB	36...72	3.3	4.00	30	86	75	SB1
OCW48-0515SB	36...72	5.0	3.00	30	87	75	SB1
OCW48-1215SB	36...72	12.0	1.25	40	89	75	SB1
OCW48-1515SB	36...72	15.0	1.00	40	89	75	SB1

Optional: OCW...-...SBN N = negative remote on/off logic Pinning SB1

**15 Watt****OCW-Series, 1x1" SMD****2:1 input voltage range open frame DC/DC converter line**

- High efficiency up to 89 %
- Very low profile
- I/O isolation of 2'250 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- Pi-filter at input
- **Dimensions (L x W x H): 27.9 x 24.4 x 9.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
OCW24-0315SB-S	18...36	3.3	4.00	30	84	100	SBS1
OCW24-0515SB-S	18...36	5.0	3.00	30	85	100	SBS1
OCW24-1215SB-S	18...36	12.0	1.25	40	87	100	SBS1
OCW24-1515SB-S	18...36	15.0	1.00	40	87	100	SBS1
OCW48-0315SB-S	36...72	3.3	4.00	30	86	75	SBS1
OCW48-0515SB-S	36...72	5.0	3.00	30	87	75	SBS1
OCW48-1215SB-S	36...72	12.0	1.25	40	89	75	SBS1
OCW48-1515SB-S	36...72	15.0	1.00	40	89	75	SBS1

Optional: OCW...-...SBN N = negative remote on/off logic Pinning SBS1

**15 Watt****OCW-Series, 2x1"****2:1 input voltage range open frame DC/DC converter line**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency up to 87 %
- Over temperature protection
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- Pi-filter at input
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
OCW24-0515	18...36	5.0	3.0	40	87	75	B4
OCW24-1V815	18...36	1.8	6.0	30	83	75	B4
OCW24-2V515	18...36	2.5	6.0	30	85	75	B4
OCW24-3V315	18...36	3.3	4.5	30	86	75	B4
OCW48-0515	36...72	5.0	3.0	40	87	75	B4
OCW48-1V815	36...72	1.8	6.0	30	83	75	B4
OCW48-2V515	36...72	2.5	6.0	30	86	75	B4
OCW48-3V315	36...72	3.3	4.5	30	87	75	B4

**15 Watt****UCU-Series, 2x2"****4:1 input voltage range DC/DC converter line with up to 3 outputs**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- Remote on/oOff control
- External output voltage adjustment  $\pm 10\%$
- No derating up to 71 °C
- Low output ripple and noise
- Pi-filter at input
- Low silhouette
- Metal case with non conductive base plate, six sides shielded
- UL and cUL1950 certified
- **Dimensions (L x W x H): 50.8 x 50.8 x 10.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
UCU24-0315	9...36	3.3	3000	15	76	75	C5
UCU24-0515	9...36	5.1	3000	15	77	75	C5
UCU24-1215	9...36	12.0	1250	15	80	75	C5
UCU24-1515	9...36	15.0	1000	15	80	75	C5
UCU48-0315	18...72	3.3	3000	10	76	75	C5
UCU48-0515	18...72	5.1	3000	10	77	75	C5
UCU48-1215	18...72	12.0	1250	10	80	75	C5
UCU48-1515	18...72	15.0	1000	10	80	75	C5
Dual Output	VDC	VDC	mA	mA	%	mVpp	
UCU24-050515	9...36	$\pm 5.1$	$\pm 1500$	20	77	75	C6
UCU24-121215	9...36	$\pm 12.0$	$\pm 625$	20	80	75	C6
UCU24-151515	9...36	$\pm 15.0$	$\pm 500$	20	80	75	C6
UCU48-050515	18...72	$\pm 5.1$	$\pm 1500$	15	79	75	C6
UCU48-121215	18...72	$\pm 12.0$	$\pm 625$	15	82	75	C6
UCU48-151515	18...72	$\pm 15.0$	$\pm 500$	15	82	75	C6
Triple Output	VDC	VDC	mA	mA	%	mVpp	
UCU24-512T15	9...36	5.1/ $\pm 12.0$	1500/ $\pm 310$	20	80	75	C7
UCU24-515T15	9...36	5.1/ $\pm 15.0$	1500/ $\pm 250$	20	80	75	C7
UCU48-512T15	18...72	5.1/ $\pm 12.0$	1500/ $\pm 310$	15	82	75	C7
UCU48-515T15	18...72	5.1/ $\pm 15.0$	1500/ $\pm 250$	15	82	75	C7

**15 Watt****UCW-Series, 2x1"****2:1 input voltage range DC/DC converter line with single or dual output**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- High efficiency
- No derating up to 71 °C
- Remote on/off control optional (suffix -T)
- External output voltage adjustment  $\pm 10\%$  optional (suffix -A)
- Pi-filter at input
- Metal case with non conductive base plate, six sides shielded
- UL and cUL 1950 certified
- **Dimensions (L x W x H):**  
**50.8 x 25.4 x 10.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mV<sub>pp</sub></b>	
UCW12-0315B	9...18	3.3	3000	20	76	75	B1
UCW12-0515B	9...18	5.1	3000	20	78	75	B1
UCW12-1215B	9...18	12.0	1250	20	82	75	B1
UCW12-1515B	9...18	15.0	1000	20	82	75	B1
UCW24-0315B	18...36	3.3	3000	20	76	75	B1
UCW24-0515B	18...36	5.1	3000	20	78	100	B1
UCW24-1215B	18...36	12.0	1250	20	82	75	B1
UCW24-1515B	18...36	15.0	1000	20	82	75	B1
UCW48-0315B	36...72	3.3	3000	15	76	75	B1
UCW48-0515B	36...72	5.1	3000	10	80	100	B1
UCW48-1215B	36...72	12.0	1250	10	82	100	B1
UCW48-1515B	36...72	15.0	1000	15	83	75	B1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mV<sub>pp</sub></b>	
UCW12-050515B	9...18	$\pm 5.1$	$\pm 1500$	20	78	75	B2
UCW12-121215B	9...18	$\pm 12.0$	$\pm 625$	30	83	75	B2
UCW12-151515B	9...18	$\pm 15.0$	$\pm 500$	30	83	75	B2
UCW24-050515B	18...36	$\pm 5.1$	$\pm 1500$	25	81	75	B2
UCW24-121215B	18...36	$\pm 12.0$	$\pm 625$	25	83	75	B2
UCW24-151515B	18...36	$\pm 15.0$	$\pm 500$	25	83	75	B2
UCW48-050515B	36...72	$\pm 5.1$	$\pm 1500$	20	82	75	B2
UCW48-121215B	36...72	$\pm 12.0$	$\pm 625$	20	83	75	B2
UCW48-151515B	36...72	$\pm 15.0$	$\pm 500$	20	83	75	B2
Option:	UCW...-15BT	T = remote on/off				Pinning see data sheet	
	UCW...-15BA	A = ext. output voltage adjustment $\pm 10\%$ , only for single output				Pinning see data sheet	

**20 Watt****ECU-Series****4:1 input voltage range DC/DC converter**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- No derating up to 71 °C
- Low output ripple and noise
- EMC according to EN55022 Class A
- Industry standard 2x2" pinning (Size 2x1.6")
- UL and cUL certified
- Metal case with non conductive base plate, six sides shielded
- **Dimensions (L x W x H):**  
**50.8 x 40.6 x 11.4 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mV<sub>pp</sub></b>	
ECU24-3V320	9...36	3.3	4000	15	78	75	BC1
ECU24-0520	9...36	5.1	4000	15	81	75	BC1
ECU24-1220	9...36	12.0	1670	15	83	75	BC1
ECU24-1520	9...36	15.0	1330	15	83	75	BC1
ECU48-3V320	18...72	3.3	4000	10	78	75	BC1
ECU48-0520	18...72	5.1	4000	10	82	75	BC1
ECU48-1220	18...72	12.0	1670	10	84	75	BC1
ECU48-1520	18...72	15.0	1330	10	84	75	BC1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mV<sub>pp</sub></b>	
ECU24-050520	9...36	$\pm 5.1$	$\pm 2000$	20	83	75	BC2
ECU24-121220	9...36	$\pm 12.0$	$\pm 833$	20	83	75	BC2
ECU24-151520	9...36	$\pm 15.0$	$\pm 666$	20	83	75	BC2
ECU48-050520	18...72	$\pm 5.1$	$\pm 2000$	15	84	75	BC2
ECU48-121220	18...72	$\pm 12.0$	$\pm 833$	15	84	75	BC2
ECU48-151520	18...72	$\pm 15.0$	$\pm 666$	15	84	75	BC2

## 20 Watt

## ECU 'B'-Series



## 4:1 input voltage range DC/DC converter line with single output

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- Metal case with non conductive base plate, six sides shielded
- Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm

## 20 Watt

## ECW-Series



## 2:1 input voltage range DC/DC converter line with single or dual output

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Efficiency up to 86 %
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- Metal case with non conductive base plate, six sides shielded
- Operating ambient temperature -25 to +71 °C
- Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-3V320B-CP	9...36	3.3	5500	55	87	75	B4
ECU24-0520B-CP	9...36	5.0	4000	55	90	75	B4
ECU24-1220B-CP	9...36	12.0	1670	55	90	75	B4
ECU24-1520B-CP	9...36	15.0	1330	55	90	75	B4
ECU48-3V320B-CP	18...72	3.3	5500	25	88	75	B4
ECU48-0520B-CP	18...72	5.0	4000	25	90	75	B4
ECU48-1220B-CP	18...72	12.0	1670	25	90	75	B4
ECU48-1520B-CP	18...72	15.0	1330	25	90	75	B4
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-050520B-CP	9...36	$\pm 5.0$	$\pm 2000$	55	90	75	B2
ECU24-121220B-CP	9...36	$\pm 12.0$	$\pm 835$	35	88	75	B2
ECU48-050520B-CP	18...72	$\pm 5.0$	$\pm 2000$	35	90	75	B2
ECU48-121220B-CP	18...72	$\pm 12.0$	$\pm 835$	25	90	75	B2
ECU48-151520B-CP	18...72	$\pm 15.0$	$\pm 666$	25	88	75	B2

Alternate pin configuration add suffix -EP instead of -CP (Pinning B3)

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW24-1V820	18...36	1.8	6000	30	86	75	B3/B4
ECW24-2V520	18...36	2.5	5000	35	81	75	B3/B4
ECW24-3V320	18...36	3.3	5000	45	83	75	B3/B4
ECW24-5V120	18...36	5.1	4000	45	85	75	B3/B4
ECW24-1220	18...36	12.0	1670	20	90	75	B3/B4
ECW24-1520	18...36	15.0	1333	20	90	75	B3/B4
ECW48-1V820	36...72	1.8	6000	30	86	75	B3/B4
ECW48-2V520	36...72	2.5	5000	35	82	75	B3/B4
ECW48-3V320	36...72	3.3	5000	35	84	75	B3/B4
ECW48-5V120	36...72	5.1	4000	25	86	75	B3/B4
ECW48-1220	36...72	12.0	1670	20	89	75	B3/B4
ECW48-1520	36...72	15.0	1330	10	88	75	B3/B4
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-121220-CP	9...18	$\pm 12.0$	$\pm 835$	40	90	75	B2
ECW12-151520-CP	9...18	$\pm 15.0$	$\pm 670$	40	90	75	B2
ECW24-121220-CP	18...36	$\pm 12.0$	$\pm 835$	20	90	75	B2
ECW24-151520-CP	18...36	$\pm 15.0$	$\pm 670$	20	90	75	B2
ECW48-121220-CP	36...72	$\pm 12.0$	$\pm 835$	10	89	75	B2
ECW48-151520-CP	36...72	$\pm 15.0$	$\pm 670$	10	89	75	B2

Alternate pin configuration add suffix -EP

Dual output only CP-version

**25 Watt****ECW-Series, 2x1.6"****2:1 input voltage range DC/DC converter line single and dual output**

- Very high efficiency up to 91 %
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- No derating up to 71 °C
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Pi-filter at input
- Metal case with non conductive base plate
- **Dimensions (L x W x H): 50.8 x 40.6 x 11.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW12-1V825SC	9...18	1.8	8.0	95	85	75	BC1
ECW12-2V525SC	9...18	2.5	8.0	95	88	75	BC1
ECW12-3V35SC	9...18	3.3	6.0	100	88	75	BC1
ECW12-5V025SC	9...18	5.0	5.0	105	89	75	BC1
ECW12-1225SC	9...18	12.0	2.0	60	87	100	BC1
ECW12-1525SC	9...18	15.0	1.6	85	86	100	BC1
ECW24-1V825SC	18...36	1.8	8.0	70	84	75	BC1
ECW24-2V525SC	18...36	2.5	8.0	70	88	75	BC1
ECW24-3V325SC	18...36	3.3	6.0	70	89	75	BC1
ECW24-0525SC	18...36	5.0	5.0	70	90	75	BC1
ECW24-1225SC	18...36	12.0	2.0	50	87	100	BC1
ECW24-1525SC	18...36	15.0	1.6	50	86	100	BC1
ECW48-1V825SC	36...72	1.8	8.0	50	84	75	BC1
ECW48-2V525SC	36...72	2.5	8.0	50	88	75	BC1
ECW48-3V325SC	36...72	3.3	6.0	50	89	75	BC1
ECW48-0525SC	36...72	5.0	5.0	50	90	75	BC1
ECW48-1225SC	36...72	12.0	2.0	30	87	100	BC1
ECW48-1525SC	36...72	15.0	1.6	30	86	100	BC1

Alternative: ECW.....SCN N = negative remote on/off logic

**25 Watt****OCW-Series****2:1 input voltage range open frame DC/DC converter line**

- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- High efficiency up to 91 %
- Industry Standard 2x2" pinout
- Over temperature protection
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- No derating up to 60 °C
- Low output ripple and noise
- **Dimensions (L x W x H): 49.5 x 39.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
OCW12-1V825	9...18	1.8	8.0	95	80	75	BC1
OCW12-2V525	9...18	2.5	8.0	95	88	75	BC1
OCW12-3V325	9...18	3.3	6.0	100	88	75	BC1
OCW12-0525	9...18	5.0	5.0	105	89	75	BC1
OCW12-1225	9...18	12.0	2.0	60	87	100	BC1
OCW12-1525	9...18	15.0	1.6	85	86	100	BC1
OCW48-1V825	36...72	1.8	8.0	30	84	75	BC1
OCW48-2V525	36...72	2.5	8.0	30	88	75	BC1
OCW48-3V325	36...72	3.3	6.0	30	89	75	BC1
OCW48-0525	36...72	5.0	5.0	30	90	75	BC1
OCW48-1225	36...72	12.0	2.0	30	87	100	BC1
OCW48-1525	36...72	15.0	1.6	30	86	100	BC1
OCW24-1V825	18...36	1.8	8.0	50	84	75	BC1
OCW24-2V525	18...36	2.5	8.0	50	88	75	BC1
OCW24-3V325	18...36	3.3	6.0	50	89	75	BC1
OCW24-0525	18...36	5.0	5.0	50	90	75	BC1
OCW24-1225	18...36	12.0	2.0	50	87	100	BC1
OCW24-1525	18...36	15.0	1.6	50	86	100	BC1

Alternative: OCW.....N N = negative remote on/off logic

## 30 Watt

## ECU-Series



## 4:1 input voltage range DC/DC converter line

- I/O isolation of 1'500 VDC
- 24 and 48 VDC 4:1 Input range
- Single and dual – version available
- Efficiency up to 91 %
- Remote on/off control
- Regulated outputs
- Input under-voltage protection
- Fixed switching frequency
- Over current protection
- Continuous short circuit protection
- 2x1 six-sided shielded metal case
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-0530	9...36	5.0	6000	100	90.0	100	B3
ECU24-1230	9...36	12.0	2500	35	91.0	100	B3
ECU24-1530	9...36	15.0	2000	35	90.5	100	B3
ECU24-3V330	9...36	3.3	7500	100	89.0	100	B3
ECU48-0530	18...72	5.0	6000	55	90.0	100	B3
ECU48-1230	18...72	12.0	2500	25	90.0	100	B3
ECU48-1530	18...72	15.0	2000	20	90.5	100	B3
ECU48-3V330	18...72	3.3	7500	55	88.0	100	B3
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECU24-121230	9...36	±12.0	±1250	35	90.0	100	B3
ECU24-151530	9...36	±15.0	±1000	35	90.0	100	B3
ECU48-121230	18...72	±12.0	±1250	25	90.5	100	B3
ECU48-151530	18...72	±15.0	±1000	20	90.0	100	B3
Alternative:	ECU...N				N = negative remote on/off logic		

## 25-30 Watt

## ECW-Series



## 4:1 input voltage range DC/DC converter line with up to 3 output voltages

- I/O isolation of 500 VDC
- Continuous short circuit proof
- Remote on/off control
- External output voltage adjustment ± 10 %
- Low output ripple and noise
- No derating up to 71 °C
- Metal case with non conductive base plate, six sides shielded
- Operating ambient temperature -25 to +71 °C
- **Dimensions (L x W x H): 76.2 x 65 x 21 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW24-0525	9...36	5.0	5000	20	77	75	E1
ECW24-1230	9...36	12.0	2500	20	81	75	E1
ECW24-1530	9...36	15.0	2000	20	81	75	E1
ECW48-0525	18...72	5.0	5000	15	78	75	E1
ECW48-1230	18...72	12.0	2500	15	81	75	E1
ECW48-1530	18...72	15.0	2000	15	81	75	E1
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW24-121230	9...36	±12.0	±1250	25	84	75	E2
ECW24-151530	9...36	±15.0	±1000	20	84	75	E2
ECW48-121230	18...72	±12.0	±1250	20	84	75	E2
ECW48-151530	18...72	±15.0	±1000	20	84	75	E2
<b>Triple Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW24-512T30	9...36	5.0/±12.0	3000/±625	25	79	75	E3
ECW24-515T30	9...36	5.0/±15.0	3000/±500	25	80	75	E3
ECW48-512T30	18...72	5.0/±12.0	3000/±625	20	79	75	E3
ECW48-515T30	18...72	5.0/±15.0	3000/±500	20	80	75	E3

## 25-30 Watt

## ECW 'C'-Series


**2:1 input voltage range DC/DC converter line with up to 3 output voltages in a 2x2" case**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- Efficiency up to 85 %
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- No derating up to 71 °C
- Metal case with non conductive base plate, six sides shielded
- Operating ambient temperature - 25 to + 71 °C
- **Dimensions (L x W x H): 50.8 x 50.8 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-0325C	9...18	3.3	5000	30	74	75	C5
ECW12-0525C	9...18	5.1	5000	30	78	75	C5
ECW12-1230C	9...18	12.0	2500	30	82	75	C5
ECW12-1530C	9...18	15.0	2000	30	82	75	C5
ECW24-0325C	18...36	3.3	5000	30	75	75	C5
ECW24-0525C	18...36	5.1	5000	30	79	75	C5
ECW24-1230C	18...36	12.0	2500	30	82	75	C5
ECW24-1530C	18...36	15.0	2000	30	82	75	C5
ECW48-0325C	36...72	3.3	5000	20	75	75	C5
ECW48-0525C	36...72	5.1	5000	20	79	75	C5
ECW48-1230C	36...72	12.0	2500	20	82	75	C5
ECW48-1530C	36...72	15.0	2000	20	82	75	C5
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-050525C	9...18	$\pm 5.1$	$\pm 2500$	35	78	75	C6
ECW12-121230C	9...18	$\pm 12.0$	$\pm 1250$	35	82	75	C6
ECW12-151530C	9...18	$\pm 15.0$	$\pm 1000$	35	82	75	C6
ECW24-050525C	18...36	$\pm 5.1$	$\pm 2500$	30	79	75	C6
ECW24-121230C	18...36	$\pm 12.0$	$\pm 1250$	30	85	75	C6
ECW24-151530C	18...36	$\pm 15.0$	$\pm 1000$	30	85	75	C6
ECW48-050525C	36...72	$\pm 5.1$	$\pm 2500$	25	79	75	C6
ECW48-121230C	36...72	$\pm 12.0$	$\pm 1250$	25	85	75	C6
ECW48-151530C	36...72	$\pm 15.0$	$\pm 1000$	25	85	75	C6
<b>Triple Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-512T25C	9...18	5.1/ $\pm 12.0$	3500/ $\pm 310$	35	79	75	C7
ECW12-515T25C	9...18	5.1/ $\pm 15.0$	3500/ $\pm 250$	35	79	75	C7
ECW24-512T25C	18...36	5.1/ $\pm 12.0$	3500/ $\pm 310$	30	80	75	C7
ECW24-515T25C	18...36	5.1/ $\pm 15.0$	3500/ $\pm 250$	30	80	75	C7
ECW48-512T25C	36...72	5.1/ $\pm 12.0$	3500/ $\pm 310$	25	80	75	C7
ECW48-515T25C	36...72	5.1/ $\pm 15.0$	3500/ $\pm 250$	25	80	75	C7



## 30 Watt

## ECW 'B'-Series


**2:1 input voltage range DC/DC converter line in a 2x1" case**

- 2:1 input voltage range
- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- **Dimensions (L x W x H): 50.8 x 25.4 x 10.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-3V330B	9...18	3.3	7500	170	86.0	75	B3
ECW12-0530B	9...18	5.0	6000	140	87.0	75	B3
ECW12-1230B	9...18	12.0	2500	50	90.0	100	B3
ECW12-1530B	9...18	15.0	2000	50	90.0	100	B3
ECW24-0530B	18...36	5.0	6000	90	89.0	75	B3
ECW24-1230B	18...36	12.0	2500	50	92.0	100	B3
ECW24-1530B	18...36	15.0	2000	60	92.0	100	B3
ECW24-3V330B	18...36	3.3	7500	110	87.0	100	B3
ECW48-0530B	36...72	5.0	6000	50	88.0	75	B3
ECW48-1230B	36...72	12.0	2500	30	91.0	100	B3
ECW48-1530B	36...72	15.0	2000	30	91.0	100	B3
ECW48-3V330B	36...72	3.3	7500	60	87.5	100	B3
<b>Dual Output</b>	<b>VDC</b>	<b>VDC</b>	<b>mA</b>	<b>mA</b>	<b>%</b>	<b>mVpp</b>	
ECW12-121230B	9...18	$\pm 12.0$	$\pm 1250$	50	89.5	100	B3
ECW12-151530B	9...18	$\pm 15.0$	$\pm 1000$	50	90.0	100	B3
ECW12-151530B	9...18	$\pm 15.0$	$\pm 1000$	50	90.0	100	B3
ECW24-121230B	18...36	$\pm 12.0$	$\pm 1250$	30	90.5	100	B3
ECW24-151530B	18...36	$\pm 15.0$	$\pm 1000$	30	90.5	100	B3
ECW48-121230B	36...72	$\pm 12.0$	$\pm 1250$	30	89.5	100	B3
ECW48-151530B	36...72	$\pm 15.0$	$\pm 1000$	30	90.5	100	B3

Alternative:

ECW...-...40CN

N = negative remote on/off logic

## 25-30 Watt

## UCW 'C'-Series


**2:1 input voltage range DC/DC converter line with up to 3 output voltages in a 2x2" case**

- I/O isolation of 500 VDC
- Continuous short circuit proof
- Efficiency up to 85 %
- Remote on/off control
- External output voltage adjustment  $\pm 10\%$
- Low output ripple and noise
- No derating up to 71 °C
- Metal case with non conductive base plate, six sides shielded
- Operating ambient temperature - 25 to +71 °C
- UL and cUL 1950 certified
- **Dimensions (L x W x H):**  
**50.8 x 50.8 x 10.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	mA	mA	%	mVpp	
UCW12-0325C	9...18	3.3	5000	30	74	75	C5
UCW12-0525C	9...18	5.1	5000	30	78	75	C5
UCW12-1230C	9...18	12.0	2500	30	82	75	C5
UCW12-1530C	9...18	15.0	2000	30	82	75	C5
UCW24-0325C	18...36	3.3	5000	30	75	75	C5
UCW24-0525C	18...36	5.1	5000	30	79	75	C5
UCW24-1230C	18...36	12.0	2500	30	82	75	C5
UCW24-1530C	18...36	15.0	2000	30	82	75	C5
UCW48-0325C	36...72	3.3	5000	20	75	75	C5
UCW48-0525C	36...72	5.1	5000	20	79	75	C5
UCW48-1230C	36...72	12.0	2500	20	82	75	C5
UCW48-1530C	36...72	15.0	2000	20	82	75	C5
Dual Output	VDC	VDC	mA	mA	%	mVpp	
UCW12-050525C	9...18	$\pm 5.1$	$\pm 2500$	35	78	75	C6
UCW12-121230C	9...18	$\pm 12.0$	$\pm 1250$	35	82	75	C6
UCW12-151530C	9...18	$\pm 15.0$	$\pm 1000$	35	82	75	C6
UCW24-050525C	18...36	$\pm 5.1$	$\pm 2500$	30	79	75	C6
UCW24-121230C	18...36	$\pm 12.0$	$\pm 1250$	30	85	75	C6
UCW24-151530C	18...36	$\pm 15.0$	$\pm 1000$	30	85	75	C6
UCW48-050525C	36...72	$\pm 5.1$	$\pm 2500$	25	79	75	C6
UCW48-121230C	36...72	$\pm 12.0$	$\pm 1250$	25	85	75	C6
UCW48-151530C	36...72	$\pm 15.0$	$\pm 1000$	25	85	75	C6
Triple Output	VDC	VDC	mA	mA	%	mVpp	
UCW12-512T25C	9...18	5.1/ $\pm 12.0$	3500/ $\pm 310$	35	79	75	C7
UCW12-515T25C	9...18	5.1/ $\pm 15.0$	3500/ $\pm 250$	35	79	75	C7
UCW24-512T25C	18...36	5.1/ $\pm 12.0$	3500/ $\pm 310$	30	80	75	C7
UCW24-515T25C	18...36	5.1/ $\pm 15.0$	3500/ $\pm 250$	30	80	75	C7
UCW48-512T25C	36...72	5.1/ $\pm 12.0$	3500/ $\pm 310$	25	80	75	C7
UCW48-515T25C	36...72	5.1/ $\pm 15.0$	3500/ $\pm 250$	25	80	75	C7

## 40 Watt

## ECW 'C'-Series


**2:1 input voltage range DC/DC converter line with single voltage in a 2x2" case**

- High efficiency up to 90 %
- I/O isolation of 500 VDC
- Continuous short circuit proof
- External output voltage trim  $\pm 10\%$
- Remote on/off control
- Over temperature protection
- No derating up to 60 °C
- External output voltage adjustment  $\pm 10\%$
- Metal case with non conductive base plate
- Sense function + 10 %
- UL and cUL 60950 certified
- **Dimensions (L x W x H):**  
**50.8 x 50.8 x 10.2 mm**

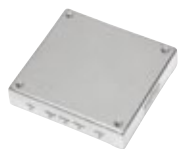


Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
<b>Single Output</b>							
	VDC	VDC	A	mA	%	mVpp	
ECW12-2V540C	9...18	2.5	10.0	200	88	50	C8
ECW12-0340C	9...18	3.3	10.0	200	89	50	C8
ECW12-0540C	9...18	5.0	8.0	200	89	50	C8
ECW12-1240C	9...18	12.0	3.33	200	90	50	C8
ECW12-1540C	9...18	15.0	2.66	200	90	50	C8
ECW24-2V540C	18...72	2.5	10.0	100	88	50	C8
ECW24-0340C	18...36	3.3	8.0	100	87	50	C8
ECW24-0540C	18...36	5.0	8.0	100	89	50	C8
ECW24-1240C	18...36	12.0	3.33	100	88	75	C8
ECW24-1540C	18...36	15.0	2.67	100	89	75	C8
ECW48-2V540	36...72	2.5	10.0	50	89	50	C8
ECW48-0340C	36...72	3.3	8.0	100	88	50	C8
ECW48-0540C	36...72	5.0	8.0	100	90	50	C8
ECW48-1240C	36...72	12.0	3.33	100	89	75	C8
ECW48-1540C	36...72	15.0	2.67	100	89	75	C8
<b>Dual Output</b>							
	VDC	VDC	A	mA	%	mVpp	
ECW12-121240C	9...18	$\pm 12.0$	$\pm 1.8$	100	89	75	C9
ECW12-151540C	9...18	$\pm 15.0$	$\pm 1.4$	100	90	75	C9
ECW24-121240C	18...36	$\pm 12.0$	$\pm 1.8$	100	91	75	C9
ECW24-151540C	18...36	$\pm 15.0$	$\pm 1.4$	100	92	75	C9
ECW48-121240C	36...72	$\pm 12.0$	$\pm 1.8$	50	90	75	C9
ECW48-151540C	36...72	$\pm 15.0$	$\pm 1.4$	50	91	75	C9
ECW12-3V3D0540C	9...18	3.3/ $\pm 5.0$	10.0/+7.5	100	89	100	C11
ECW24-3V3D0540C	18...36	3.3/ $\pm 5.0$	10.0/+7.5	50	90	100	C11
ECW48-3V3D0540C	36...72	3.3/ $\pm 5.0$	10.0/+7.5	50	90	100	C11
<b>Triple Output</b>							
	VDC	VDC	A	mA	%	mVpp	
ECW12-312T40C	9...18	3.3/ $\pm 12.0$	6.0/+0.4	200	88	75	C10
ECW12-315T40C	9...18	3.3/ $\pm 15.0$	6.0/+0.3	200	88	75	C10
ECW12-512T40C	9...18	5.0/ $\pm 12.0$	6.0/+0.4	200	88	75	C10
ECW12-515T40C	9...18	5.0/ $\pm 15.0$	6.0/+0.3	200	90	75	C10
ECW24-312T40C	18...36	3.3/ $\pm 12.0$	6.0/+0.4	100	90	75	C10
ECW24-315T40C	18...36	3.3/ $\pm 15.0$	6.0/+0.3	100	90	75	C10
ECW24-512T40C	18...36	5.0/ $\pm 12.0$	6.0/+0.4	100	90	75	C10
ECW24-515T40C	18...36	5.0/ $\pm 15.0$	6.0/+0.3	100	90	75	C10
ECW48-312T40C	36...72	3.3/ $\pm 12.0$	6.0/+0.4	50	89	75	C10
ECW48-315T40C	36...72	3.3/ $\pm 15.0$	6.0/+0.3	50	87	75	C10
ECW48-512T40C	36...72	5.0/ $\pm 12.0$	6.0/+0.4	50	88	75	C10
ECW48-515T40C	36...72	5.0/ $\pm 15.0$	6.0/+0.3	50	90	75	C10

Alternative:

ECW...-40CN

N = negative remote on/off logic

**50 Watt****ECU-Series****4:1 input voltage range DC/DC converter line**

- 4:1 input voltage range
- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense
- External output voltage adjustment  $\pm 10\%$
- UL and cUL certified
- Metal case with non conductive base plate, five sides shielded
- Ready for mounting on heat sink

• **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm**

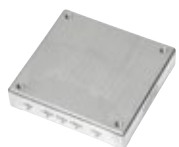


Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECU24-3V350	9...36	3.3	10.00	50	77	100	HB1
ECU24-5V050	9...36	5.0	10.00	50	81	100	HB1
ECU24-1250	9...36	12.0	4.16	50	83	150	HB1
ECU24-1550	9...36	15.0	3.33	50	83	150	HB1
ECU24-2450	9...36	24.0	2.08	50	83	240	HB1
ECU48-3V350	18...72	3.3	10.00	50	78	100	HB1
ECU48-5V050	18...72	5.0	10.00	50	82	100	HB1
ECU48-1250	18...72	12.0	4.16	50	84	150	HB1
ECU48-1550	18...72	15.0	3.33	50	84	150	HB1
ECU48-2450	18...72	24.0	2.08	50	84	240	HB1

Alternative:

ECU...N

N = negative remote on/off logic

**50 Watt****ECW-Series****2:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Efficiency up to 86 %
- Remote on/off control
- Sense
- Ext. output voltage trimming  $\pm 10\%$
- Metal case with non conductive base plate, five sides shielded
- Ready for mounting on heat sink
- UL and cUL1950 certified

• **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW12-2V550	9...18	2.5	10.00	50	76	75	HB1
ECW12-0350	9...18	3.3	10.00	50	78	75	HB1
ECW12-0550	9...18	5.1	10.00	50	81	75	HB1
ECW12-1250	9...18	12.0	4.16	50	84	100	HB1
ECW12-1550	9...18	15.0	3.33	50	84	100	HB1
ECW12-2450	9...18	24.0	2.08	50	84	240	HB1
ECW24-2V550	18...36	2.5	10.00	50	77	75	HB1
ECW24-0350	18...36	3.3	10.00	50	79	75	HB1
ECW24-0550	18...36	5.1	10.00	50	82	75	HB1
ECW24-1250	18...36	12.0	4.16	50	85	100	HB1
ECW24-1550	18...36	15.0	3.33	50	85	100	HB1
ECW24-2450	18...36	24.0	2.08	50	86	240	HB1
ECW48-2V550	36...72	2.5	10.00	50	77	75	HB1
ECW48-0350	36...72	3.3	10.00	50	79	75	HB1
ECW48-0550	36...72	5.1	10.00	50	82	75	HB1
ECW48-1250	36...72	12.0	4.16	50	85	100	HB1
ECW48-1550	36...72	15.0	3.33	50	85	100	HB1
ECW48-2450	36...72	24.0	2.08	50	86	240	HB1

Alternative:

ECW...50N

N = negative remote on/off logic

**75 Watt****ECU-Series****4:1 input voltage range DC/DC converter line**

- 4:1 input voltage range
- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense
- External output voltage adjustment  $\pm 10\%$
- UL and cUL certified
- Metal case with non conductive base plate, five sides shielded
- Ready for mounting on heat sink

• **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECU24-3V375	9...36	3.3	15.00	50	78	100	HB1
ECU24-5V075	9...36	5.0	15.00	50	82	100	HB1
ECU24-1275	9...36	12.0	6.25	50	84	150	HB1
ECU24-1575	9...36	15.0	5.00	50	84	150	HB1
ECU24-2475	9...36	24.0	3.12	50	84	240	HB1
ECU48-3V375	18...72	3.3	15.00	50	78	100	HB1
ECU48-5V075	18...72	5.0	15.00	50	82	100	HB1
ECU48-1275	18...72	12.0	6.25	50	84	150	HB1
ECU48-1575	18...72	15.0	5.00	50	84	150	HB1
ECU48-2475	18...72	24.0	3.12	50	84	150	HB1

Alternative:

ECU...75N

N = negative remote on/off logic

**75 Watt****ECW-Series****2:1 input voltage range DC/DC converter line with single and dual output**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense (single output only)
- External output voltage adjustment  $\pm 10\%$
- Metal case with non conductive base plate, five sides shielded, dual output with aluminium base plate and plastic case
- Ready for mounting on heat sink
- UL and cUL1950 certified

• **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm (single)**  
**61 x 58 x 13.2 mm (dual)**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW12-2V575	9...18	2.5	15.00	50	76	75	HB1
ECW12-0375	9...18	3.3	15.00	50	78	75	HB1
ECW12-0575	9...18	5.1	15.00	50	81	75	HB1
ECW12-1275	9...18	12.0	6.25	50	84	100	HB1
ECW12-1575	9...18	15.0	5.00	50	84	100	HB1
ECW12-2475	9...18	24.0	3.13	50	84	240	HB1
ECW24-2V575	18...36	2.5	15.00	50	77	75	HB1
ECW24-0375	18...36	3.3	15.00	50	79	75	HB1
ECW24-0575	18...36	5.1	15.00	50	82	75	HB1
ECW24-1275	18...36	12.0	6.25	50	85	100	HB1
ECW24-1575	18...36	15.0	5.00	50	85	100	HB1
ECW24-2475	18...36	24.0	3.13	50	86	240	HB1
ECW48-2V575	36...72	2.5	15.00	50	77	75	HB1
ECW48-0375	36...72	3.3	15.00	50	79	75	HB1
ECW48-0575	36...72	5.1	15.00	50	83	75	HB1
ECW48-1275	36...72	12.0	6.25	50	85	100	HB1
ECW48-1575	36...72	15.0	5.00	50	85	100	HB1
ECW48-2475	36...72	24.0	3.13	50	86	240	HB1
Dual Output	VDC	VDC	A	mA	%	mVpp	
ECW24-052V575	18...36	2.5/5.1	variable	30	84	100	HB2
ECW24-053V375	18...36	2.5/5.1	variable	30	84	100	HB2
ECW48-052V575	36...72	3.3/5.1	variable	30	84	100	HB2
ECW48-053V375	36...72	3.3/5.1	variable	30	84	100	HB2

**75 Watt****EQU-Series****4:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- External output voltage adjustment  $\pm 10\%$
- Efficiency up to 87 %
- Remote on/off control
- Sense
- Aluminium base plate with plastic case
- Ready for mounting on heat sink
- **Dimensions (L x W x H):**  
**57.9 x 36.8 x 12.7 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
EQU24-3V375	9...36	3.3	12.00	50	81	100	QB1
EQU24-0575	9...36	5.0	12.00	50	84	100	QB1
EQU24-1275	9...36	12.0	6.26	50	86	150	QB1
EQU24-1575	9...36	15.0	5.00	50	86	150	QB1
EQU24-2475	9...36	24.0	3.12	50	86	240	QB1
EQU48-3V375	18...72	3.3	12.00	50	82	100	QB1
EQU48-0575	18...72	5.0	12.00	50	85	100	QB1
EQU48-1275	18...72	12.0	6.25	50	86	150	QB1
EQU48-1575	18...72	15.0	5.00	50	87	150	QB1
EQU48-2475	18...72	24.0	3.12	50	87	240	QB1

Alternative:

EQU...100N

N = negative remote on/off logic

**75 Watt****EQW-Series****2:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Efficiency up to 90 %
- Remote on/off control
- Sense
- External output voltage adjustment  $\pm 10\%$
- Aluminium base plate with plastic case
- Ready for mounting on heat sink
- UL and cUL1950 certified
- **Dimensions (L x W x H):**  
**58 x 37 x 12.7 mm**

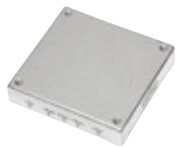


Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
EQW24-1V875	18...36	1.8	25	60	83	100	QB1
EQW24-2V575	18...36	2.5	25	60	85	100	QB1
EQW24-3V375	18...36	3.3	20	70	88	100	QB1
EQW24-5V175	18...36	5.1	15	80	90	100	QB1
EQW48-1V875	36...72	1.8	0.5...25	50	84	100	QB1
EQW48-2V575	36...72	2.5	0.5...25	50	86	100	QB1
EQW48-3V375	36...72	3.3	0.5...20	50	88	100	QB1
EQW48-5V175	36...72	5.1	0.5...15	80	90	100	QB1

Alternative:

EQW...75N

N = negative remote on/off logic

**100 Watt****ECU-Series****4:1 input voltage range DC/DC converter line with single output**

- I/O isolation of 1'500 VDC
- Industry standard pinning
- Continuous short circuit proof
- Efficiency up to 88 %
- Over temperature protection
- Sense
- External output voltage adjust
- Metal case with non conductive base plate, five sides shielded
- Operating case temperature -40 °C to +100 °C
- UL and cUL 60950 certified

• **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm**



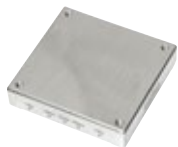
E195564

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECU24-3V3100	9...36	3.3	20.00	35	81.5	100	HB1
ECU24-5V0100	9...36	5.0	20.00	35	83.5	100	HB1
ECU24-12100	9...36	12.0	8.30	35	85	150	HB1
ECU24-15100	9...36	15.0	6.70	35	86.5	150	HB1
ECU24-24100	9...36	24.0	4.17	35	86	240	HB1
ECU48-3V3100	18...72	3.3	20.00	30	80.5	100	HB1
ECU48-5V0100	18...72	5.0	20.00	30	86	100	HB1
ECU48-12100	18...72	12.0	8.30	30	86.5	150	HB1
ECU48-15100	18...72	15.0	6.70	30	87.5	150	HB1
ECU48-24100	18...72	24.0	4.17	30	88	240	HB1

Alternative:

ECU...100N

N = negative remote on/off logic

**100 Watt****ECW-Series****2:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense
- External output voltage adjustment ± 10 %
- Metal case with non conductive base plate, five sides shielded
- Ready for mounting on heat sink
- UL and cUL1950 certified

• **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm**



E195564

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW24-2V5100	18...36	2.5	20.00	50	77	100	HB1
ECW24-03100	18...36	3.3	20.00	50	79	100	HB1
ECW24-05100	18...36	5.1	20.00	50	83	100	HB1
ECW24-12100	18...36	12.0	8.30	50	85	150	HB1
ECW24-15100	18...36	15.0	6.70	50	85	150	HB1
ECW24-24100	18...36	24.0	4.17	50	85	240	HB1
ECW48-2V5100	36...72	2.5	20.00	50	78	100	HB1
ECW48-03100	36...72	3.3	20.00	50	80	100	HB1
ECW48-05100	36...72	5.1	20.00	50	84	100	HB1
ECW48-12100	36...72	12.0	8.30	50	85	150	HB1
ECW48-15100	36...72	15.0	6.70	50	85	150	HB1
ECW48-24100	36...72	24.0	4.17	50	85	240	HB1

Alternative:

ECW...100N

N = negative remote on/off logic



**100 Watt****EQU-Series****4:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- External output voltage adjustment  $\pm 10\%$
- Efficiency up to 88 %
- Remote on/off control
- Sense
- Aluminium base plate with plastic case
- Ready for mounting on heat sink
- **Dimensions (L x W x H):**  
**57.9 x 36.8 x 12.7 mm**

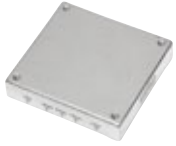


Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
EQU48-3V3100	18...72	3.3	30.00	60	88	100	QB1
EQU48-05100	18...72	5.0	20.00	60	88	100	QB1
EQU48-12100	18...72	12.0	8.30	30	88	100	QB1
EQU48-15100	18...72	15.0	6.70	30	88	100	QB1
EQU48-24100	18...72	24.0	4.17	30	88	100	QB1
Alternative:	EQU.....100N						N = negative remote on/off logic

**150 Watt****ECU-Series****4:1 input voltage range DC/DC converter with single output**

- I/O isolation of 1'500 VDC
- Industry standard pinning
- Continuous short circuit proof
- Efficiency up to 90 %
- Over voltage and over temperature protection
- Low output ripple and noise
- Operating temperature -40 °C to +100 °C
- External output voltage adjust
- UL and cUL 60950 certified
- **Dimensions (L x W x H):**  
**61 x 57.9 x 13.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECU24-3V3150	9...36	3.3	30.00	100	87	100	HB1
ECU24-5V0150	9...36	5.0	30.00	100	89	100	HB1
ECU24-12150	9...36	12.0	12.50	100	90	150	HB1
ECU24-15150	9...36	15.0	10.00	100	90	150	HB1
ECU24-24150	9...36	24.0	6.50	100	89	240	HB1
ECU48-3V3150	18...72	3.3	30.00	100	87	100	HB1
ECU48-5V0150	18...72	5.0	30.00	100	89	100	HB1
ECU48-12150	18...72	12.0	12.50	50	90	150	HB1
ECU48-15150	18...72	15.0	10.00	50	90	150	HB1
ECU48-24150	18...72	24.0	6.25	50	89	240	HB1

**150 Watt****ECW-Series****2:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense
- External output voltage adjustment  $\pm 10\%$
- Metal case with non conductive base plate, five sides shielded
- Ready for mounting on heat sink
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**61 x 58 x 12.7 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW48-2V5150	36...72	2.5	30.00	25	74	100	HB1
ECW48-03150	36...72	3.3	30.00	25	79	100	HB1
ECW48-05150	36...72	5.1	30.00	25	83	100	HB1
ECW48-12150	36...72	12.0	12.50	25	85	150	HB1
ECW48-15150	36...72	15.0	8.40	25	85	150	HB1
ECW48-24150	36...72	24.0	6.25	25	85	240	HB1
Alternative:	ECW...-...150N						N = negative remote on/off logic

**200 Watt****ECU-Series****4:1 input voltage range DC/DC converter with single output**

- I/O isolation of 1'500 VDC
- Industry standard pinning
- Continuous short circuit proof
- Efficiency up to 89 %
- Over voltage and over temperature protection
- Aluminium base plate with plastic case
- Operating temperature -40 °C to +100 °C
- External output voltage adjust
- Ready for mounting on heat sink

- **Dimensions (L x W x H): 61 x 57.9 x 13.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECU24-12200	9...36	12.0	16.7	150	86	150	HB1
ECU24-15200	9...36	15.0	13.3	150	86	150	HB1
ECU24-24200	9...36	24.0	8.3	100	87	240	HB1
ECU24-3V3200	9...36	3.3	50.0	150	87	100	HB1
ECU24-48200	9...36	24.0	4.2	60	86	240	HB1
ECU24-5V0200	9...36	5.0	40.0	150	87	100	HB1
ECU48-12200	18...72	12.0	16.7	60	88	150	HB1
ECU48-15200	18...72	15.0	13.3	60	88	150	HB1
ECU48-24200	18...72	24.0	8.3	60	88	240	HB1
ECU48-3V3200	18...72	3.3	40.0	80	88	100	HB1
ECU48-48200	18...72	48.0	4.2	50	87	240	HB1
ECU48-5V0200	18...72	5.0	40.0	80	89	100	HB1
Alternative:	ECU...-...200N						N = negative remote on/off logic

**200 Watt****ECW-Series****2:1 input voltage range DC/DC converter line**

- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense
- Ext. output voltage adjustment  $\pm 10\%$
- Aluminium base plate with plastic case
- Ready for mounting on heat sink
- UL and cUL1950 certified

- **Dimensions (L x W x H):**  
**117 x 61 x 13.2 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW48-2V5200	36...72	2.5	40.00	25	74	100	FB1
ECW48-3V3200	36...72	3.3	40.00	25	79	100	FB1
ECW48-5V1200	36...72	5.1	40.00	25	83	100	FB1
ECW48-12200	36...72	12.0	17.00	25	85	150	FB1
ECW48-15200	36...72	15.0	13.30	25	85	150	FB1
ECW48-24200	36...72	24.0	8.33	25	85	240	FB1
ECW48-28200	36...72	28.00	7.10	25	89	280	FB1
ECW48-48200	36...72	48.0	4.20	25	85	480	FB1
Alternative:	ECW...-...200N						N = negative remote on/off logic

**350 Watt****ECW-Series****2:1 input voltage range DC/DC converter line**

- 231-350 W Isolated Output
- Industry standard pinning
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Remote on/off control
- Sense
- External output voltage adjustment  $\pm 10\%$
- Aluminium base plate with plastic case
- Ready for mounting on heat sink

- **Dimensions (L x W x H):**  
**61 x 58 x 13.2 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW24-05350	18...36	5.0	70.0	250	89	100	HB1
ECW24-12350	18...36	12.0	29.2	220	91	120	HB1
ECW24-24350	18...36	24.0	14.6	40	90	280	HB1
ECW24-28350	18...36	28.0	12.5	50	91	280	HB1
ECW24-3V3350	18...36	3.3	70.0	130	88	100	HB1
ECW48-05350	36...72	5.0	70.0	120	91	100	HB1
ECW48-12350	36...72	12.0	29.2	100	92	120	HB1
ECW48-24350	36...72	24.0	14.6	40	91	280	HB1
ECW48-28350	36...72	28.0	12.5	30	92	280	HB1
ECW48-3V3350	36...72	3.3	70.0	80	89	100	HB1
Alternative:	ECW...-...200N						N = negative remote on/off logic

**600 Watt****ECW-Series****2:1 input voltage range DC/DC converter line**

- 600 - 700 W Isolated Output
- Industry standard pinning
- I/O isolation of 1'500 VDC
- Over voltage / current protection
- Over temperature protection
- Remote on/off control
- Sense
- External output voltage adjustment  $\pm 10\%$
- Aluminium base plate with plastic case
- **Dimensions (L x W x H):**  
**116.8 x 61 x 12.7 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	$\eta$ typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
ECW24-12600	18...36	12.0	50.0	150	89	120	FB
ECW24-28600	18...36	28.0	21.5	150	90	280	FB
ECW24-32600	18...36	32.0	19.0	150	91	320	FB
ECW48-12600	36...75	12.0	50.0	120	89	120	FB
ECW48-28600	18...36	28.0	25.0	105	91	280	FB
ECW48-32600	36...75	32.0	19.0	90	91	320	FB
Alternative:	ECW...-...200N		N = negative remote on/off logic				

## 75 Watt

### VCU-Series



#### 4:1 input voltage range DC/DC converter line for use in battery and vehicle applications

- 4:1 ultra wide input range
- 2V Hysteresis
- I/O isolation of 1'500 VDC
- Continuous short circuit proof
- Over temperature protection
- Burst and surge proof 2'000/500 VDC
- Reversed input polarity protection
- Vibration, shock and bump resistant
- EMC according to EN55022 Class B
- Aluminum chassis

- **Dimensions (L x W x H):**  
**163 x 83 x 28 mm**



Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	No load	η typ.	Ripple	Pinning
Single Output	VDC	VDC	A	mA	%	mVpp	
VCU48-2675-A1P1-H2.C	18...72	26.4	2.84	25	84	100	S11
VCU48-2475-A1P1-H2.C	18...72	24.0	3.10	25	82	100	S11
VCU48-1375-A1P1-H2.C	18...72	13.2	5.70	25	82	100	S11
VCU24-2675-A1P1-H2.C	9...36	26.4	2.84	30	84	100	S11
VCU24-2475-A1P1-H2.C	9...36	24.0	3.10	30	82	100	S11
VCU24-1375-A1P1-H2.C	9...36	13.2	5.70	30	81	100	S11
VCU110-2675-A1P1-H2.C	66...154	26.4	2.84	15	84	100	S11
VCU110-2475-A1P1-H2.C	66...154	24.0	3.10	15	83	100	S11
VCU110-1375-A1P1-H2.C	66...154	13.2	5.70	15	83	100	S11

## Vehicle UPS

### UPS-Series



#### UPS for the VCLU vehicle converter line

- Sealed lead battery
- Temperature controlled charging
- Vibration, shock and bump resistant
- Input power fail signal (LED/PC)
- Internal battery short circuit protection
- RS232 interface
- Aluminum chassis

- **Dimensions: 190 x 55 x 131 mm**

Model	U <sub>out nom</sub>	U <sub>out range</sub>	I <sub>out</sub>	Capacity	U <sub>in nom</sub>	Connector
Single Output	VDC	VDC	A		VDC	
VUPS-1375-EV9-C	12	9...14.2	6	6Ah@1h	13.2	Screw Term.
VUPS-2675-EP5-C	24	18...28.4	3	3Ah@1h	26.4	Screw Term.

Other input and output voltages available upon request

**5-6 Watt****CFM-Series****Cost-effective open frame modules with universal input range**

- 85-264 VAC universal input range
- 47-63 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- Through-hole pinning
- High efficiency
- UL/cUL certified
- CE certified
- **Dimensions: 55 x 35 x 21 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
CFM-05S033	85...264	3.3	1250	70-77	50
CFM-05S050	85...264	5.0	1000	70-77	50
CFM-05S090	85...264	9.0	550	70-77	90
CFM-05S120	85...264	12.0	420	70-77	120
CFM-05S150	85...264	15.0	330	70-77	150
CFM-05S180	85...264	18.0	280	70-77	180
CFM-05S240	85...264	24.0	230	70-77	240

**10 Watt****CFM-Series****Cost-effective open frame modules with universal input range**

- 85 to 264 VAC universal input range
- 47-63 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- PCB Pinning
- High efficiency
- Industry standard pinning
- UL/cUL certified
- CE certified
- **Dimensions: 65 x 45 x 23 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
CFM-1007S	85...264	3.3	2500	65	50
CFM-1001S	85...264	5.0	2000	70	50
CFM-1009S	85...264	9.0	1120	72	90
CFM-1002S	85...264	12.0	833	75	120
CFM-1003S	85...264	15.0	667	75	150
CFM-1005S	85...264	24.0	417	78	240

**15 Watt****CFM-Series****Cost-effective open frame modules with universal input range**

- 85 to 264 VAC universal input range
- 47-63 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- PCB Pinning
- High efficiency
- Industry standard pinning
- UL/cUL certified
- CE certified
- **Dimensions: 70 x 48 x 23 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
CFM-1501S	85...264	5.0	3000	73	50
CFM-1502S	85...264	12.0	1250	80	120
CFM-1503S	85...264	15.0	1000	80	150
CFM-1505S	85...264	24.0	630	82	240
CFM-1507S	85...264	3.3	3000	70	50
CFM-1509S	85...264	9.0	1670	75	90

**20 Watt****CFM-Series****Cost-effective open frame modules with universal input range**

- 85 to 264 VAC universal input range
- 47-63 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 89 x 51 x 20 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
CFM-2007S	85...264	3.3	4400	70	50
CFM-2001S	85...264	5.0	4400	73	50
CFM-2009S	85...264	9.0	2450	75	90
CFM-2002S	85...264	12.0	1800	80	120
CFM-2003S	85...264	15.0	1400	80	150
CFM-2005S	85...264	24.0	920	82	240

**40 Watt****CFM-Series****Cost-effective open frame modules with universal input range**

- 90-264 VAC and 120-370 VDC input range
- 47-440 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 102 x 51 x 30 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
CFM-40S033	90...264	3.3	6000	74	50
CFM-40S050	90...264	5.0	6000	76	50
CFM-40S090	90...264	9.0	4450	80	90
CFM-40S120	90...264	12.0	3340	82	120
CFM-40S150	90...264	15.0	2670	83	150
CFM-40S240	90...264	24.0	1670	85	240
CFM-40S300	90...264	30.0	1330	86	300
CFM-40S360	90...264	36.0	1110	87	360
CFM-40S480	90...264	48.0	834	87	480

**40 Watt****CFM-Series, Dual****Cost-effective open frame modules with universal input range**

- 90-264 VAC and 120-370 VDC input range
- 47-440 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 102 x 51 x 30 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Dual Output	VAC	VDC	A	%	mVpp
CFM-40D-01	90...264	5.0	5.0	77	50
		12.0	2.5		120
CFM-40D-02	90...264	5.0	5.0	78	50
		24.0	1.5		240



## 40 Watt

## CFM-Series, Triple


**Cost-effective open frame modules with universal input range**

- 90-264 VAC and 120-370 VDC input range
- 47-440 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified
- **Dimensions: 102 x 51 x 30 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Dual Output	VAC	VDC	mA	%	mV <sub>pp</sub>
CFM-40T-07	90...264	3.3	7000	70	50
		5.0	3500		50
		-12.0	500		120
CFM-40T-01	90...264	5.0	5000	75	50
		12.0	2500		120
		-5.0	500		50
CFM-40T-02	90...264	5.0	5000	75	50
		12.0	2500		120
		-12.0	500		120
CFM-40T-03	90...264	5.0	5000	75	50
		15.0	2300		150
		-15.0	500		150
CFM-40T-04	90...264	5.0	5000	75	50
		24.0	1500		240
		-12.0	500		120
CFM-40T-05	90...264	5.0	5000	75	50
		24.0	1500		240
		-5.0	500		50
CFM-40T-06	90...264	5.0	5000	75	50
		24.0	1500		240
		12.0	500		120

## 60 Watt

## CFM-Series


**Cost-effective open frame modules with universal input range**

- 85 to 264 VAC universal input range
- 47-63 Hz
- 3'000 VAC input to output isolation
- EMC according to EN55022 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified
- **Dimensions: 102 x 51 x 30 mm**
- **Triple: 102 x 51 x 32 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
CFM-60C240	90...264	24.0	2500	85	240
CFM-60S033	90...264	3.3	8000	74	50
CFM-60S050	90...264	5.0	8000	76	50
CFM-60S090	90...264	9.0	6670	80	90
CFM-60S120	90...264	12.0	5000	82	120
CFM-60S150	90...264	15.0	4000	83	150
CFM-60S240	90...264	24.0	2500	85	240
CFM-60S240-M	90...264	24.0	2500	85	240
CFM-60S300	90...264	30.0	2000	86	300
CFM-60S360	90...264	36.0	1670	86	360
CFM-60S480	90...264	48.0	1250	87	480
Triple Output	VAC	VDC	mA	%	mV <sub>pp</sub>
CFM-60T-04	90...264	3.3	6000	-	50
		5.0	3500		50
		-12.0	500		120
CFM-60T-01	90...264	5.0	4000	-	50
		12.0	3000		120
		-12.0	500		120
CFM-60T-02	90...264	5.0	4000	-	50
		15.0	2500		150
		-15.0	300		150
CFM-60T-03	90...264	5.0	4000	-	50
		24.0	1500		240
		-12.0	500		120

**100 Watt****CFM-Series****Open frame modules with universal input range and active PFC**

- 90 to 264 VAC universal input range
- 47-63 Hz
- Power factor correction (PFC)
- Molex connectors
- Short Circuit Protection
- High efficiency
- **Dimensions: 102 x 51 x 28 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	A	%	mVpp
CFM-101S120	90...264	12	8.4	87	120
CFM-101S150	90...264	15	6.7	87	150
CFM-101S200	90...264	20	5.0	88	200
CFM-101S240	90...264	24	4.2	88	240
CFM-101S480	90...264	48	2.1	88	480

**200 Watt****CFM-Series****Open frame modules with universal input range and active PFC**

- 90 to 264 VAC universal input range
- Active PFC
- Remote Voltage Sense
- High efficiency up to 92 % typical
- Option: with cover
- **Dimensions:**  
Open frame versions (127 x 76.2 x 36.6 mm)  
Covered versions (136 x 88 x 49 mm)

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	A	%	mVpp
CFM-201S120	90...264	12	16.67	89	120
CFM-201S240	90...264	24	8.34	90	150
CFM-201S360	90...264	36	5.56	91	200
CFM-201S480	90...264	48	4.17	92	240

**350 Watt****CFM-Series****U-Frame modules with universal input range and active PFC**

- 90 to 264 VAC universal input range
- Active PFC
- 1U low profile
- Remote voltage sense
- High efficiency up to 90 %
- **Dimensions: 235.2 x 101.6 x 40.0 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	A	%	mVpp
CFM-350S120	90...264	12	29.20	88	150
CFM-350S150	90...264	15	23.35	88	150
CFM-350S240	90...264	24	14.60	90	150
CFM-350S360	90...264	36	9.73	90	150
CFM-350S480	90...264	48	7.30	91	150

**5-6 Watt****CFM medical-Series****Cost-effective medical open frame modules with universal input range**

- 85-264 VAC universal input range
- 47-63 Hz
- 5'656 VDC input to output isolation
- EMC according to EN55011 Class B
- Through-hole pinning
- UL/cUL certified
- CE certified

• **Dimensions: 55 x 35 x 21 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
CFM-05S033-M	85...264	3.3	1250	70	50
CFM-05S050-M	85...264	5.0	1000	73	50
CFM-05S090-M	85...264	9.0	550	76	90
CFM-05S120-M	85...264	12.0	420	77	120
CFM-05S150-M	85...264	15.0	330	78	150
CFM-05S180-M	85...264	18.0	280	78	180
CFM-05S240-M	85...264	24.0	230	80	240

**40 Watt****CFM medical-Series****Cost-effective medical open frame modules with universal input range**

- 90 to 264 VAC universal input range
- 47-63 Hz
- 5'656 VDC input to output isolation
- EMC according to EN55011 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 76.2 x 50.8 x 23.1 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
CFM-40M033	90...264	3.3	6000	76	50
CFM-40M050	90...264	5.0	6000	80	50
CFM-40M090	90...264	9.0	4450	84	90
CFM-40M120	90...264	12.0	3340	86	120
CFM-40M150	90...264	15.0	2670	87	150
CFM-40M240	90...264	24.0	1670	88	240
CFM-40M300	90...264	30.0	1330	88	300
CFM-40M360	90...264	36.0	1110	88	360
CFM-40M480	90...264	48.0	834	88	480

**60 Watt****CFM medical-Series****Cost-effective medical open frame modules with universal input range**

- 90 to 264 VAC universal input range
- 47-63 Hz
- 5'656 VDC input to output isolation
- EMC according to EN55011 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 102 x 51 x 28 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
CFM-60M050	90...264	5	8000	82	50
CFM-60M120	90...264	12	5000	87	120
CFM-60M150	90...264	15	4000	88	150
CFM-60M240	90...264	24	2500	89	240
CFM-60M480	90...264	48	1250	90	480

**100 Watt****CFM medical-Series****Cost-effective medical & ITE open frame modules with PFC**

- 90 to 264 VAC universal input range
- 47-63 Hz
- Active PFC Meets EN61000-3-2 Class D
- 5'656 VAC input to output isolation
- EMC according to EN55022 Class B
- Molex connectors
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 127 x 76.2 x 26.7 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	A	%	mVpp
CFM-100M050	90...264	5.0	20.0	85	100
CFM-100M075	90...264	7.5	13.4	87	150
CFM-100M090	90...264	9.0	11.2	88	90
CFM-100M120	90...264	12.0	8.4	89	120
CFM-100M150	90...264	15.0	6.7	89	150
CFM-100M180	90...264	18.0	5.6	90	180
CFM-100M240	90...264	24.0	4.2	91	240
CFM-100M280	90...264	28.0	3.6	91	280
CFM-100M360	90...264	36.0	2.8	91	360
CFM-100M480	90...264	48.0	2.1	91	480

**350 Watt****CFM medical-Series****Cost-effective medical open frame modules with universal input range**

- 90 to 264 VAC universal input range
- 47-63 Hz
- 5'656 VDC input to output isolation
- EMC according to EN55011 Class B
- Remote Voltage Sense
- PS ON/OFF Remote Control
- +5V Stand-by Output Power
- 12V fan output
- High efficiency
- UL/cUL certified
- CE certified

• **Dimensions: 165 x 101.6 x 38.6 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	A	%	mVpp
CFM-351M050	90...264	5	60.0/40.00	88	100
CFM-351M120	90...264	12	29.2/25.00	92	120
CFM-351M240	90...264	24	14.6/12.50	93	150
CFM-351M480	90...264	48	7.3/6.25	93	150

**750 Watt****CFM 750-Series****Enclosed modules with universal input range and active PFC**

- 90 to 264 VAC universal input range
- Active PFC
- 1U Low Profile, High Power Density
- Remote voltage sense
- PS on/off Remote Control
- Active Current Sharing
- I2C bus Interface
- High efficiency up to 91 %
- **Dimensions (L x W x H): 35.2 x 101.6 x 40.4 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.
Single Output	VAC	VDC	A	%
CFM-750E240	90...264	24	31.2	91
CFM-750E360	90...264	36	20.8	91
CFM-750E480	90...264	48	15.6	91

**1600 Watt****CFM 1600-Series****AC/DC modules with universal input range and active PFC**

- 90 to 264 VAC universal input range
- Active PFC
- 1U low profile
- Remote voltage sense
- active current sharing
- i2bus interface
- fan speed control, optional
- standby output voltage 5Vdc
- High efficiency up to 92%
- hot swap redundancy
- optional 1Ux19" power rack
- **Dimensions (L x W x H): 292 x 140.7 x 42 mm**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.
Single Output	VAC	VDC	A	%
CFM-1600H-480-24P	90...264	48	33.3	89

**36 Watt****TRG36-Series****36W Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm AWG18, TRG36A090: 1220 mm, TRG36A050: 720 mm AWG18)
- AC inlet IEC320/C8
- Leakage current 0.25mA
- I/O isolation of 4'242 VDC
- Efficiency up to 83 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature
- Provide PSE Mark

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TRG36A05	90...264	5.0	4000	73	50
TRG36A09	90...264	9.0	3000	77	90
TRG36A12	90...264	12.0	2500	78	120
TRG36A13	90...264	13.5	2400	80	140
TRG36A15	90...264	15.0	2400	80	150
TRG36A18	90...264	18.0	2000	81	180
TRG36A24	90...264	24.0	1500	81	240
TRG36A48	90...264	48.0	750	83	480

**45 Watt****TRG45-Series****45W Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm AWG18, TRG45A120: 720 mm, TRG45A120: 720 mm AWG16)
- AC inlet IEC320/C13
- I/O isolation of 4'242 VDC
- Efficiency up to 87 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TRG45A120	90...264	12	3750	84	120
TRG45A150	90...264	15	3000	85	150
TRG45A180	90...264	18	2500	85	180
TRG45A190	90...264	19	2370	85	190
TRG45A240	90...264	24	1880	86	240
TRG45A480	90...264	48	1000	87	480

**70 Watt****TRG70-Series****70W Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm, TRG70A120: 720 mm AWG16, TRG70A150: 1220 mm AWG16)
- AC inlet IEC320/C13
- I/O isolation of 4'242 VDC
- Efficiency up to 87 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
TRG70A120	90...264	12	5500	85	120
TRG70A150	90...264	15	4600	85	150
TRG70A180	90...264	18	3900	85	180
TRG70A190	90...264	19	3700	85	190
TRG70A240	90...264	24	3000	86	240
TRG70A480	90...264	48	1500	87	480

**70 Watt****TRG70E-Series****70W Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm, TRG70A120: 720 mm AWG16, TRG70A150: 1220 mm AWG16)
- AC inlet IEC320/C13
- I/O isolation of 4'242 VDC
- Efficiency up to 87 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
TRG70A120	90...264	12	5500	82	120
TRG70E150	90...264	15	4600	83	150
TRG70E150	90...264	15	4600	83	150
TRG70E180	90...264	18	3900	84	180
TRG70E190	90...264	19	3600	84	190
TRG70E240	90...264	24	3000	86	240
TRG70E480	90...264	48	1500	87	480



**100 Watt****TRG100A-Series****100 W Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Active PFC meets EN61000-3-2
- Meet CEC & Erp Level V (output cable length = 1800 mm, TRG100A120/150: 1220 mm)
- AC inlet IEC320/C13
- I/O isolation of 4'242 VDC
- Efficiency up to 87 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TRG100A120	90...264	12.0	8340	87	120
TRG100A125	90...264	12.5	8000	87	125
TRG100A135	90...264	13.5	7330	87	135
TRG100A150	90...264	15.0	6670	87	150
TRG100A180	90...264	18.0	5560	87	180
TRG100A190	90...264	19.0	5210	87	190
TRG100A200	90...264	20.0	5000	87	200
TRG100A240	90...264	24.0	4170	87	240
TRG100A280	90...264	28.0	3540	87	280
TRG100A290	90...264	29.0	3410	87	290
TRG100A300	90...264	30.0	3300	87	300
TRG100A360	90...264	36.0	2780	87	360
TRG100A480	90...264	48.0	2080	87	480
TRG100A540	90...264	54.0	1850	87	540

**150 Watt****TRG150A-Series****150 W Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Active PFC meets EN61000-3-2
- Meet CEC & Erp Level V (output cable length = 1800 mm, TRG150A120: 950 mm, TRG100A150-190: 1220 mm)
- AC inlet IEC320/C13
- I/O isolation of 4'242 VDC
- Efficiency up to 87 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	A	%	mVpp
TRG150A120	90...264	12	12.50	87	240
TRG150A150	90...264	15	10.00	87	300
TRG150A180	90...264	18	8.34	87	360
TRG150A190	90...264	19	7.90	87	380
TRG150A240	90...264	24	6.25	87	480
TRG150A280	90...264	28	5.36	87	560
TRG150A300	90...264	30	5.00	87	600
TRG150A360	90...264	36	4.17	87	720
TRG150A480	90...264	48	3.13	87	960

**21 Watt****TRG21-Series****21 W Medical Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm AWG18,  
TRG21A050: 1220 mm AWG18)
- AC inlet IEC320/C8
- No load input power < 0.3 W
- Leakage current < 0.1 mA
- I/O isolation of 5'656 VDC
- Efficiency up to 85 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TRG21A050	90...264	5	3000	75	50
TRG21A090	90...264	9	2300	80	50
TRG21A120	90...264	12	1800	81	90
TRG21A150	90...264	15	1400	83	100
TRG21A180	90...264	18	1200	84	100
TRG21A240	90...264	24	900	85	100

**30 Watt****TR30M-Series****30 W Medical Switching Adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- AC inlet IEC320/C8, 2 pole
- Meets EN60601-1
- EMI meets EN55022 Class B
- Meet CEC Level III (except TR30M50. Output cable length = 1800 mm)
- Meet Erp Level V (output cable length = 1800 mm, TR30M050: 720 mm, TR30M090: 1220mm)
- I/O isolation of 5'656 VDC
- Efficiency up to 82 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature
- Provides PSE Mark

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TR30M050	90...264	5	4000	73	50
TR30M090	90...264	9	3000	77	90
TR30M120	90...264	12	2500	77	120
TR30M150	90...264	15	2000	80	150
TR30M180	90...264	18	1650	80	180
TR30M240	90...264	24	1250	82	240

**60 Watt****TR60M-Series****60W Medical switching adapter, desktop type**

- Universal input: 90-264 VAC, 47-63 Hz
- AC inlet IEC320/C8, 2 pole
- Meets EN60601-1
- EMI meets EN55022 Class B
- Meet CEC Level IV (except TR60M50. Output cable length = 1800 mm)
- Meet Erp Level V (except TR60M50. Output cable length = 1800 mm, TR60M120: 720 mm, TR60M150: 1220 mm, TR60M180/190: 1500 mm)
- I/O isolation of 5'656 VDC
- Efficiency up to 87 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40° C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TR60M050	90...264	5	6000	71	50
TR60M120	90...264	12	5000	83	120
TR60M150	90...264	15	4000	84	150
TR60M180	90...264	18	3330	84	180
TR60M190	90...264	19	3150	85	190
TR60M240	90...264	24	2500	85	240
TR60M360	90...264	36	1660	86	360
TR60M480	90...264	48	1250	87	480

**10 Watt****TRG10R-Series****10W Switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-60 Hz
- Interchangeable AC plugs
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V (output cable length = 1800 mm)
- I/O isolation of 4'242 VDC
- Efficiency up to 77 %
- Over voltage protection
- Short circuit protection continuous.
- Derating above 40 °C ambient temperature
- Provides PSE Mark

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
TRG10R050	90...264	5.0	1600	75	50
TRG10R060	90...264	6.0	1500	75	60
TRG10R075	90...264	7.5	1200	75	75
TRG10R090	90...264	9.0	1100	76	90
TRG10R120	90...264	12.0	850	76	120
TRG10R136	90...264	13.6	750	76	140
TRG10R150	90...264	15.0	700	77	150
TRG10R180	90...264	18.0	550	77	180
TRG10R240	90...264	24.0	400	77	240

**15 Watt****TRG15-Series****15W Switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-60 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V (output cable length = 1800 mm)
- I/O isolation of 4'242 VDC
- Efficiency up to 83 %
- Over voltage protection
- Short circuit protection continuous, hiccup mode
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
TRG1505	90...264	5.0	2000	72	50
TRG1506	90...264	6.0	1700	76	60
TRG1507	90...264	7.5	1600	77	75
TRG1509	90...264	6.0	1400	77	90
TRG1512	90...264	12.0	1000	80	120
TRG1512-01	90...264	13.6	1000	81	140
TRG1515	90...264	15.0	1000	81	150
TRG1518	90...264	18.0	830	83	180
TRG1524	90...264	24.0	630	83	240

**15 Watt****TRG15RA-Series****15W Switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-63 Hz
- Interchangeable AC plugs
- EMI meets EN55022 Class B
- Meet CEC & Erp Level V (output cable length = 1800 mm)
- I/O isolation of 4'242 VDC
- Efficiency up to 80 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
TRG15RA050	90...264	5.0	2000	73	50
TRG15RA060	90...264	6.0	1700	74	60
TRG15RA090	90...264	9.0	1400	77	90
TRG15RA120	90...264	12.0	1100	78	120
TRG15RA150	90...264	15.0	1000	79	150
TRG15RA180	90...264	18.0	830	79	180
TRG15RA240	90...264	24.0	630	80	240

**25 Watt****TRG25-Series****25W Switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-63 Hz
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm,  
TRG25033: 720 mm, TRG25050:1220 mm)
- I/O isolation of 4'242 VDC
- Efficiency up to 84 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TRG25033	90...264	3.3	4000	72	50
TRG25050	90...264	5.0	4000	75	50
TRG250120	90...264	12.0	2100	81	120
TRG250150	90...264	15.0	1670	82	150
TRG250180	90...264	18.0	1400	82	180
TRG250240	90...264	24.0	1050	84	240

**30 Watt****TRG30RAV-Series****30W Switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-63 Hz
- Interchangeable AC plugs
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm, TRG30RA050V,  
TRG30RA090V: 1220 mm)
- I/O isolation of 4'242 VDC
- Efficiency up to 80 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TRG30RA050V	90...264	5	4000	80	50
TRG30RA090V	90...264	9	3000	84	90
TRG30RA120V	90...264	12	2500	84	120
TRG30RA150V	90...264	15	2000	85	150
TRG30RA180V	90...264	18	1670	85	180
TRG30RA240V	90...264	24	1250	86	240

**30 Watt****TRG30RV-Series**

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mV <sub>pp</sub>
TRG30R090V	90...264	9	3000	84	90
TRG30R120V	90...264	12	2500	84	120
TRG30R150V	90...264	15	2000	85	150
TRG30R180V	90...264	18	1.67	85	180
TRG30R240V	90...264	24	1.25	86	240

**30W Switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-63 Hz
- Interchangeable AC plugs
- EMI meets EN55022 Class B and CISPR/FCC Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm, TRG30R050V, TRG30R090V: 1220 mm)
- I/O isolation of 4'242 VDC
- Efficiency up to 86 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 40 °C ambient temperature

**15 Watt****TR15RAM-Series****15W Medical switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-63 Hz
- Interchangeable AC plugs
- Meets EN60601-1
- EMI meets EN55022 Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm)
- I/O isolation of 5'656 VDC
- Efficiency up to 83 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 50 °C ambient temperature
- Provides PSE Mark

Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TR15RAM050	90...264	5	2000	73	50
TR15RAM120	90...264	12	1100	83	120
TR15RAM150	90...264	15	1000	82	150
TR15RAM240	90...264	24	625	82	240

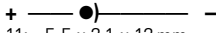
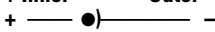
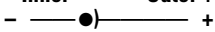
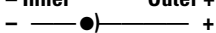
**30 Watt****TR30RAM-Series****30W Medical switching adapter, wall mounted**

- Universal input: 90-264 VAC, 47-63 Hz
- Interchangeable AC plugs
- Meets EN60601-1
- EMI meets EN55022 Class B
- Meet CEC & Erp Level V  
(output cable length = 1800 mm)
- I/O isolation of 5'656 VDC
- Efficiency up to 83 %
- Over voltage protection
- Short circuit protection continuous
- Derating above 50 °C ambient temperature
- Provides PSE Mark



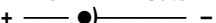
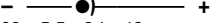
Model	U <sub>in</sub>	U <sub>out</sub>	I <sub>out</sub>	η typ.	Ripple
Single Output	VAC	VDC	mA	%	mVpp
TR30RAM050	90...264	5	4000	73	50
TR30RAM090	90...264	9	3000	76	90
TR30RAM120	90...264	12	2500	79	120
TR30RAM150	90...264	15	2000	81	150
TR30RAM240	90...264	24	1250	83	240



## WALL MOUNT TYPE AC ADAPTER

TRXXXX	X	XX	X	XX
Model No.	AC Plug Type	DC Plug Type	OVP Option	DC Cable Length and Type
A: USA 2 Pin E: Europe 2 Pin U: British 3 Pin S: Australia 2 Pin		<b>Straight/</b> <b>+ Inner</b> <b>Outer -</b> 	A: Without OVP Option E: With OVP Option	01: 720 mm 02: 1'200 mm 03: 1'800 mm 11: 720 mm with Ferrite Core 12: 1'200 mm with Ferrite Core 13: 1'800 mm with Ferrite Core
		128: 4.0 x 1.7 x 9.5 mm 129: 3.5 x 1.1 x 7.5 mm 136: 3.5 x 1.35 x 9 mm 147: 3.0 x 1.1 x 9 mm 329: 3.8 x 1.05 x 9.5 mm 62: Open end XX: For special plugs, please inquire your distributor		
		<b>Right Angle/</b> <b>+ Inner</b> <b>Outer -</b> 		
		01: 5.5 x 2.1 x 12 mm 02: 5.5 x 2.5 x 12 mm 17: 5.5 x 2.1 x 11 mm 19: 5.5 x 2.5 x 10.5 mm 20: 5.5 x 2.5 x 9 mm 21: 5.5 x 2.5 x 9.5 mm 24: 5.5 x 2.1 x 9.5 mm 31: 3.5 x 1.35 x 7.5 mm 34: 5.5 x 2.1 x 11.5 mm 36: 3.5 x 1.35 x 9 mm 38: 3.5 x 1.7 x 9 mm 40: 4.0 x 1.7 x 9.5 mm 42: 3.5 x 1.35 x 9.5 mm 46: 4.0 x 1.7 x 12 mm 48: 5 x 1.5 x 9.5 mm 49: 2.35 x 0.7 x 9.5 mm 103: 3.5 x 1.05 x 9.5 mm 106: 4.0 x 1.7 x 10 mm 109: 5.5 x 2.2 x 11 mm 110: 6.5 x 3.0 x 9.5 mm 112: 6.5 x 3.0 x 10 mm 114: 3.0 x 1.1 x 10 mm 117: 3.5 x 1.3 x 9 mm 138: 3.5 x 1.35 x 12 mm 142: 3.8 x 1.1 x 10 mm 148: 3.5 x 1.35 x 10 mm 303: 4.75 x 1.7 x 11 mm 304: 5.5 x 2.1 x 9 mm 305: 3.5 x 1.3 x 8 mm 309: 5.5 x 2.5 x 11 mm 324: 4.0 x 1.7 x 11 mm 501: 3.5 x 1.35 x 6.5 mm 503: 5.5 x 2.1 x 9.5 mm 507: 3.5 x 1.1 x 9 mm 509: 3.5 x 1.35 x 11.5 mm 512: 6.3 x 3.0 x 12 mm 513: 3.5 x 1.1 x 9.5 mm		
		<b>Right Angle/</b> <b>- Inner</b> <b>Outer +</b> 		
		03: 5.5 x 2.1 x 12 mm 04: 5.5 x 2.5 x 12 mm 16: 5.5 x 2.1 x 11 mm 22: 5.5 x 2.5 x 9.5 mm 43: 5.5 x 2.1 x 9.5 mm 44: 3.5 x 1.35 x 7.5 mm 105: 3.5 x 1.05 x 9.5 mm 111: 3.5 x 1.35 x 9.5 mm 122: 3.5 x 1.35 x 12 mm 141: 5.5 x 2.1 x 11 mm 150: 3.5 x 1.35 x 9 mm 317: 5.5 x 2.5 x 9 mm		
		<b>Straight/</b> <b>- Inner</b> <b>Outer +</b> 		
		05: 5.5 x 2.1 x 12 mm 13: 5.5 x 2.1 x 12 mm 14: 5.5 x 2.5 x 12 mm 27: 5.5 x 2.5 x 9.5 mm 102: 5.5 x 2.1 x 9.5 mm 108: 3.5 x 1.35 x 7.5 mm 117: 2.5 x 0.7 x 9 mm		

## DESK TOP TYPE AC ADAPTER

TRXXXXX Model No.	XX DC Plug Type	X OVP Option	XX DC Cable Length and Type	
	<b>Straight/ + Inner      Outer -</b>  11: 5.5 x 2.1 x 12 mm 12: 5.5 x 2.5 x 12 mm 18: 5.5 x 2.5 x 11 mm 23: 5.5 x 2.1 x 9.5 mm 26: 5.5 x 2.5 x 9.5 mm 32: 5.5 x 2.1 x 7.5 mm 33: 5.5 x 2.1 x 11.5 mm 35: 4.0 x 1.7 x 9.5 mm 37: 5.5 x 2.5 x 7.5 mm 39: 3.5 x 1.35 x 9 mm 41: 3.5 x 1.35 x 7.5 mm 45: 4.75 x 1.7 x 9.5 mm 50: 4.0 x 1.7 x 11 mm 104: 5.5 x 2.1 x 14 mm 107: 6.3 x 3.0 x 12 mm 113: 5.5 x 2.5 x 14 mm 115: 3.0 x 1.1 x 10 mm 116: 3.5 x 1.35 x 9.5 mm 118: 6.5 x 3 x 11 mm 119: 4.0 x 1.35 x 7.5 mm 120: 4.0 x 1.35 x 9.5 mm 121: 3.8 x 1.35 x 9.5 mm 123: 3.5 x 0.7 x 8 mm 124: 3.5 x 1.1 x 11 mm 125: 6.2 x 1.9 x 14 mm 126: 3.5 x 1.35 x 8.4 mm 127: 2.35 x 0.7 x 9.5 mm 130: 3.4 x 1.35 x 10 mm 131: 5.5 x 2.5 x 11 mm 133: 3.5 x 1.35 x 9 mm 134: 3.5 x 1.35 x 10 mm 137: 4.75 x 1.7 x 12 mm 140: 5.5 x 1.0 x 9.5 mm 143: 4.0 x 1.7 x 10 mm 144: 3.5 x 1.35 x 12 mm 146: 3.5 x 1.35 x 14 mm 149: 2.5 x 0.7 x 9 mm 301: 6.5 x 3.0 x 9.5 mm 311: 3.5 x 1.35 x 6 mm 312: 5.5 x 2.1 x 11 mm 319: 3.5 x 1.9 x 9.0 mm 330: 3.5 x 1.35 x 6.5 mm 331: 3.0 x 1.1 x 8.5 mm 333: 3.5 x 1.1 x 7.5 mm 334: 3.5 x 1.1 x 8.7 mm 335: 3.5 x 1.35 x 7 mm 338: 3.5 x 1.35 x 11 mm 340: 5.5 x 2.5 x 11.5 mm 341: 3.5 x 1.1 x 7.6 mm 343: 4.75 x 1.7 x 10 mm 348: 3.5 x 1.3 x 7.5 mm 350: 5.0 x 1.9 x 8 mm  <b>Straight/ - Inner      Outer +</b>  05: 5.5 x 2.1 x 12 mm 13: 5.5 x 2.1 x 12 mm 14: 5.5 x 2.5 x 12 mm 27: 5.5 x 2.5 x 9.5 mm 102: 5.5 x 2.1 x 9.5 mm 108: 3.5 x 1.35 x 7.5 mm 117: 2.5 x 0.7 x 9 mm	128: 4.0 x 1.7 x 9.5 mm 129: 3.5 x 1.1 x 7.5 mm 136: 3.5 x 1.35 x 9 mm 147: 3.0 x 1.1 x 9 mm 329: 3.8 x 1.05 x 9.5 mm 62: Open end XX: For special plugs, please inquire your distributor  <b>Right Angle/ + Inner      Outer -</b>  01: 5.5 x 2.1 x 12 mm 02: 5.5 x 2.5 x 12 mm 17: 5.5 x 2.1 x 11 mm 19: 5.5 x 2.5 x 10.5 mm 20: 5.5 x 2.5 x 9 mm 21: 5.5 x 2.5 x 9.5 mm 24: 5.5 x 2.1 x 9.5 mm 31: 3.5 x 1.35 x 7.5 mm 34: 5.5 x 2.1 x 11.5 mm 36: 3.5 x 1.35 x 9 mm 38: 3.5 x 1.7 x 9 mm 40: 4.0 x 1.7 x 9.5 mm 42: 3.5 x 1.35 x 9.5 mm 46: 4.0 x 1.7 x 12 mm 48: 5 x 1.5 x 9.5 mm 49: 2.35 x 0.7 x 9.5 mm 103: 3.5 x 1.05 x 9.5 mm 106: 4.0 x 1.7 x 10 mm 109: 5.5 x 2.2 x 11 mm 110: 6.5 x 3.0 x 9.5 mm 112: 6.5 x 3.0 x 10 mm 114: 3.0 x 1.1 x 10 mm 117: 3.5 x 1.3 x 9 mm 138: 3.5 x 1.35 x 12 mm 142: 3.8 x 1.1 x 10 mm 148: 3.5 x 1.35 x 10 mm 303: 4.75 x 1.7 x 11 mm 304: 5.5 x 2.1 x 9 mm 305: 3.5 x 1.3 x 8 mm 309: 5.5 x 2.5 x 11 mm 324: 4.0 x 1.7 x 11 mm 501: 3.5 x 1.35 x 6.5 mm 503: 5.5 x 2.1 x 9.5 mm 507: 3.5 x 1.1 x 9 mm 509: 3.5 x 1.35 x 11.5 mm 512: 6.3 x 3.0 x 12 mm 513: 3.5 x 1.1 x 9.5 mm  <b>Right Angle/ - Inner      Outer +</b>  03: 5.5 x 2.1 x 12 mm 04: 5.5 x 2.5 x 12 mm 16: 5.5 x 2.1 x 11 mm 22: 5.5 x 2.5 x 9.5 mm 43: 5.5 x 2.1 x 9.5 mm 44: 3.5 x 1.35 x 7.5 mm 105: 3.5 x 1.05 x 9.5 mm 111: 3.5 x 1.35 x 9.5 mm 122: 3.5 x 1.35 x 12 mm 141: 5.5 x 2.1 x 11 mm 150: 3.5 x 1.35 x 9 mm 317: 5.5 x 2.5 x 9 mm	A: Without OVP Option E: With OVP Option	01: 720 mm 02: 1'200 mm 03: 1'800 mm 11: 720 mm with Ferrite Core 12: 1'200 mm with Ferrite Core 13: 1'800 mm with Ferrite Core 21: 720 mm with Ferrite Core (Only for TR100 Series) 22: 1'200 mm with Ferrite Core (Only for TR100 Series) 23: 1'800 mm with Ferrite Core (Only for TR100 Series)

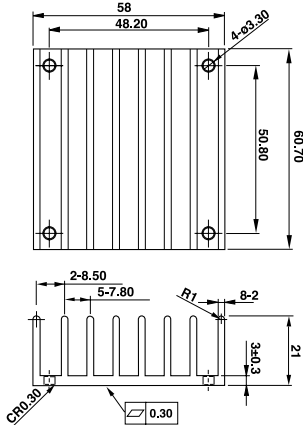
Typical at 25 °C, nominal line and 75 % load, unless otherwise Specified

All dimensions in mm

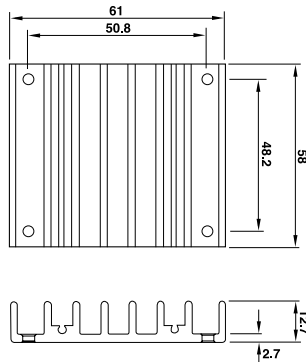
## Half Brick Case

**Vertical Fins** Model No.: FH-5861-21

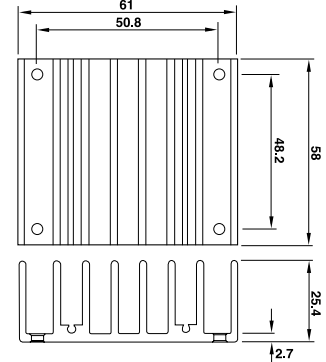
**Horizontal Fins** Model No.: FH-6158-13

**Horizontal Fins** Model No.: FH-6158-25


**Rca:** 3.90 °C/W (typ.), At natural convection  
 1.74 °C/W (typ.), At 100LFM  
 1.33 °C/W (typ.), At 200LFM  
 1.12 °C/W (typ.), At 300LFM  
 0.97 °C/W (typ.), At 400LFM



**Rca:** 4.70 °C/W (typ.), At natural convection  
 2.89 °C/W (typ.), At 100LFM  
 2.30 °C/W (typ.), At 200LFM  
 1.88 °C/W (typ.), At 300LFM  
 1.59 °C/W (typ.), At 400LFM



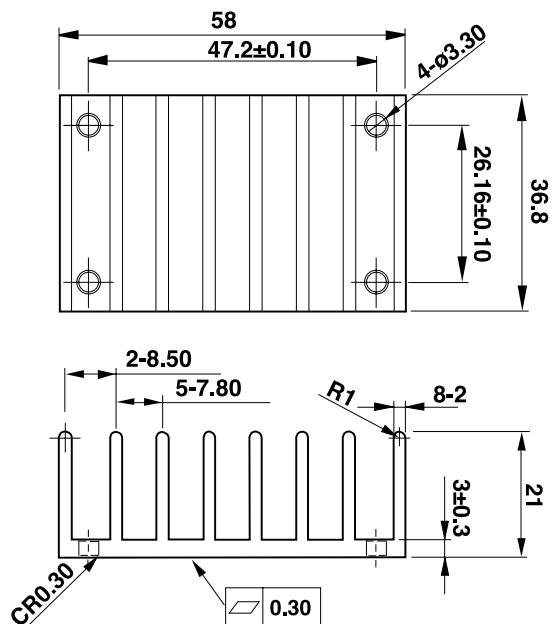
**Rca:** 3.90 °C/W (typ.), At natural convection  
 1.44 °C/W (typ.), At 100LFM  
 1.17 °C/W (typ.), At 200LFM  
 1.04 °C/W (typ.), At 300LFM  
 0.95 °C/W (typ.), At 400LFM

All dimensions in mm

## Quarter Brick Case

**Vertical Fins** Model No.: FH-5837-21

**Rca:** 4.78 °C/W (typ.), At natural convection  
 2.44 °C/W (typ.), At 100LFM  
 2.06 °C/W (typ.), At 200LFM  
 1.76 °C/W (typ.), At 300LFM  
 1.58 °C/W (typ.), At 400LFM

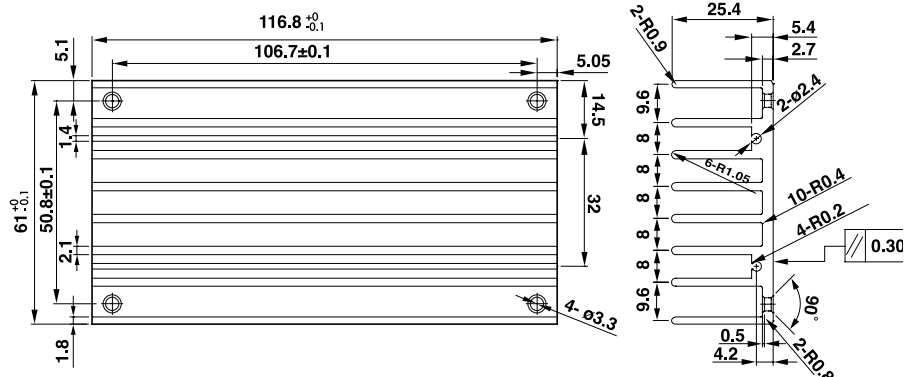


All dimensions in mm

## Full Brick

Horizontal Fins Model No.: FH-61117-25

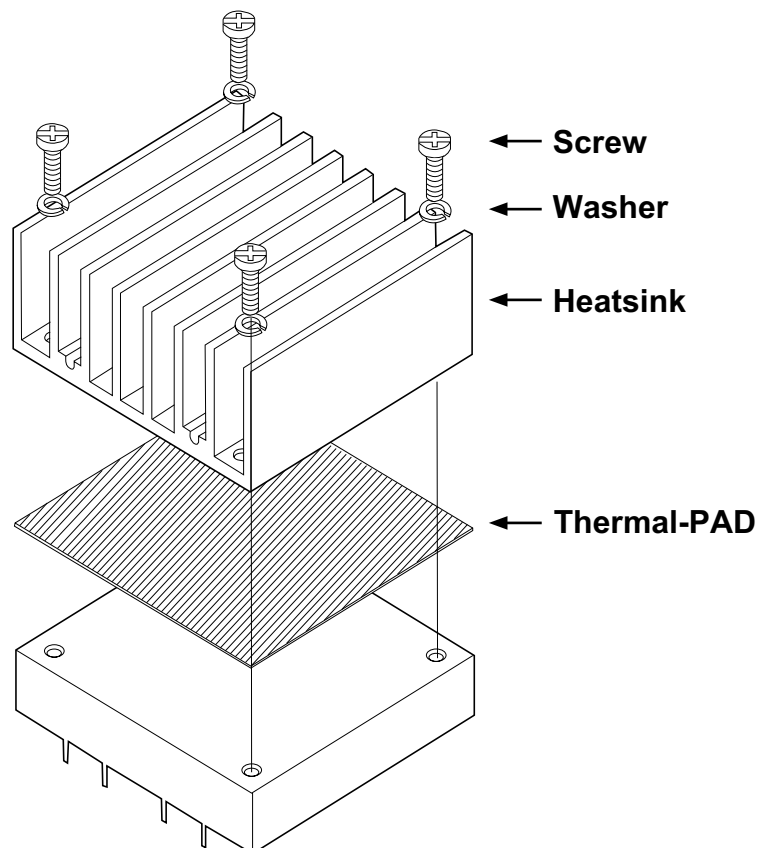
- **Thermal pad**  
SR 60×115.8×0.23 (G6135013070)
- **Screw**  
SMP+SW M3x8L (75A1300322)
- **Thermal Resistance**  
2.07 °C/W (typ.), At natural convection



## Half Brick Assembly

Horizontal Fins Model No.: FH-61117-25

- **Heat Sink**  
FH-5861-21  
FH-6158-13  
FH-6158.25
- **Thermal pad**  
SZ 56.9×60×0.25 mm
- **Screw**  
SMP+SW M3x8L



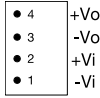
All Specifications Typical At Nominal Line, Full Load and 25 °C Unless Otherwise Noted.

**S-4 cases, bottom view**

**Pinning S4-1**  
Single Output

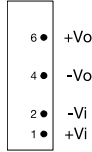


**Pinning S4-2**  
Single Output

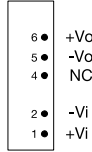


**S-7 cases, bottom view**

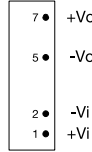
**Pinning S7-1**  
Single Output



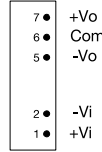
**Pinning S7-2**  
Single Output



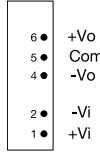
**Pinning S7-3**  
Single Output



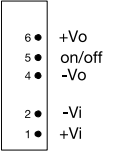
**Pinning S7-4**  
Dual Output



**Pinning S7-5**  
Dual Output

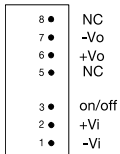


**Pinning S7-6**  
Dual Output

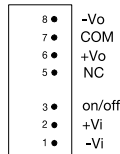


**S-8 and S-9 cases, bottom view**

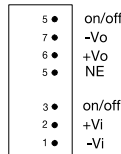
**Pinning S8-1**  
Single Output



**Pinning S8-2**  
Dual Output

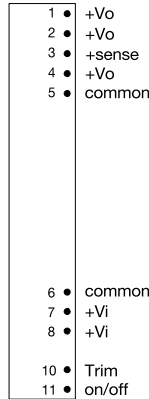


**Pinning S9-1**  
Dual Output

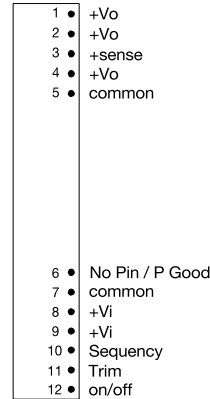


**S-11 and S-12 cases, bottom view**

**Pinning S11**

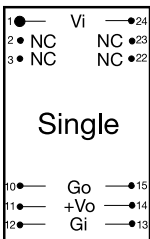


**Pinning S12**

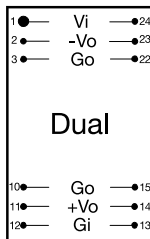


**A cases, top view**

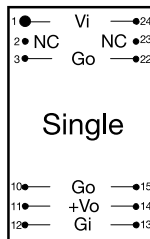
**Pinning A1**



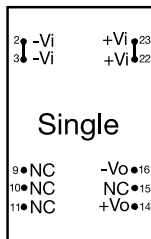
**Pinning A2**



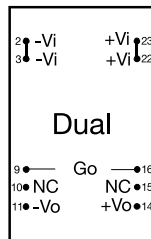
**Pinning A3**



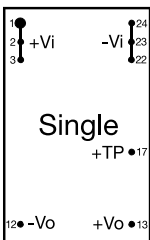
**Pinning A4**



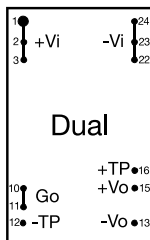
**Pinning A5**



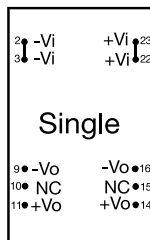
**Pinning A6**



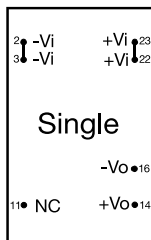
**Pinning A7**



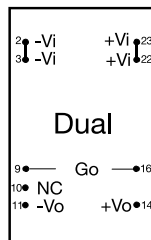
**Pinning A8**



**Pinning A9**



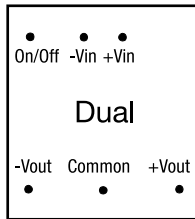
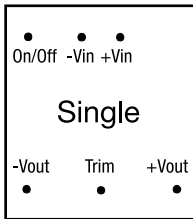
**Pinning A10**



**SB cases, bottom view**

**Pinning SB1**

**Pinning SB2**



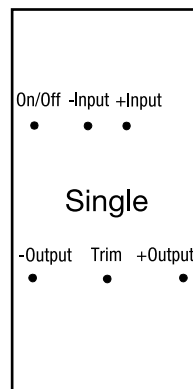
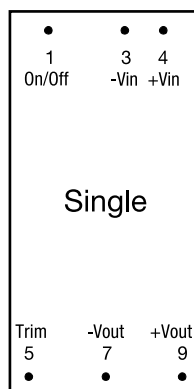
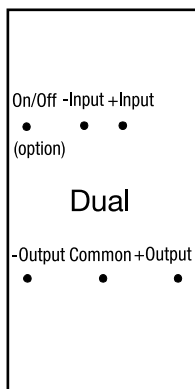
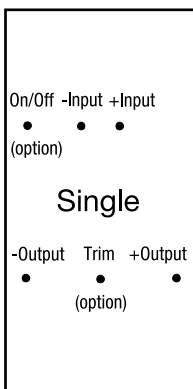
**B cases, bottom view**

**Pinning B1**

**Pinning B2**

**Pinning B3**

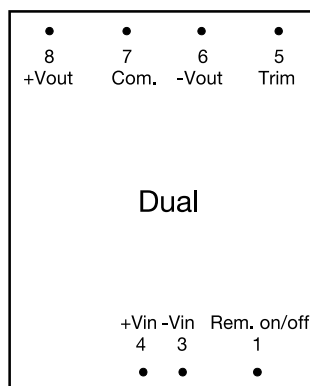
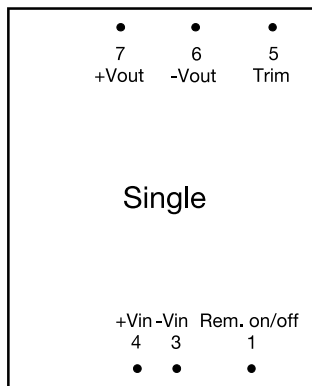
**Pinning B4**



**BC cases, bottom view**

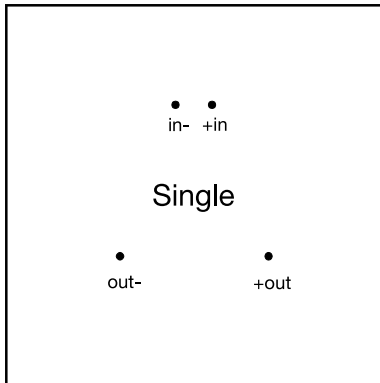
**Pinning BC1**

**Pinning BC2**

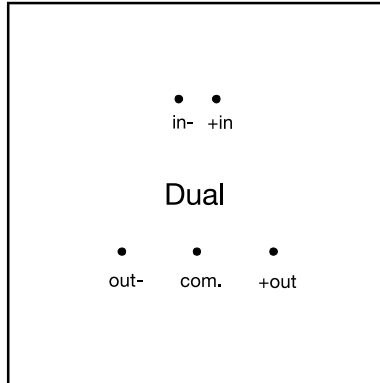


## C cases, bottom view

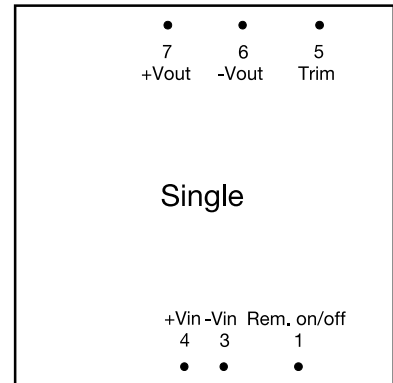
Pinning C1



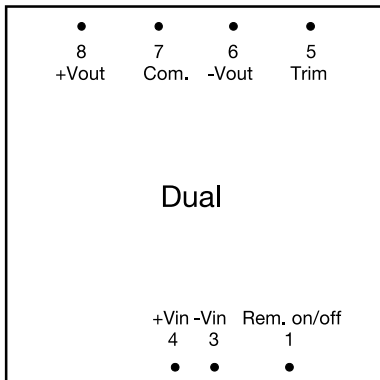
Pinning C2



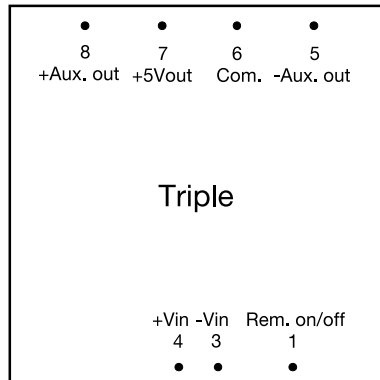
Pinning C5



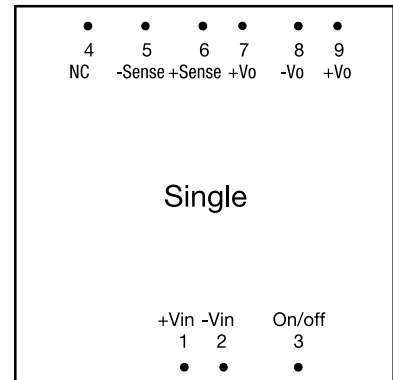
Pinning C6



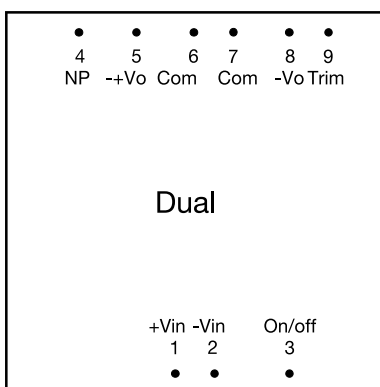
Pinning C7



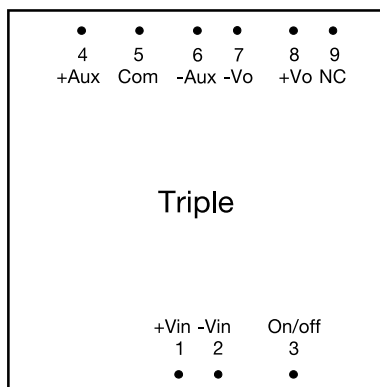
Pinning C8



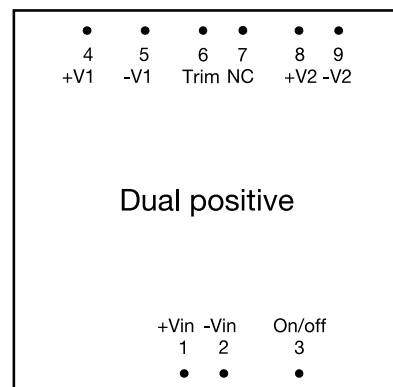
Pinning C9



Pinning C10

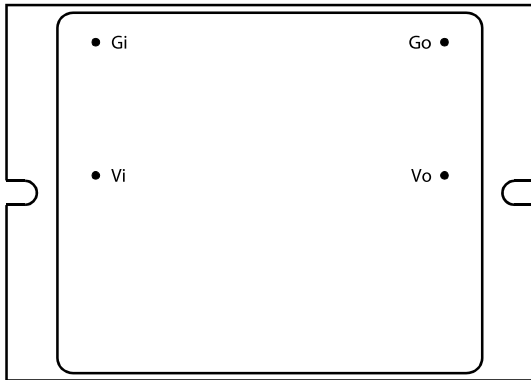


Pinning C11

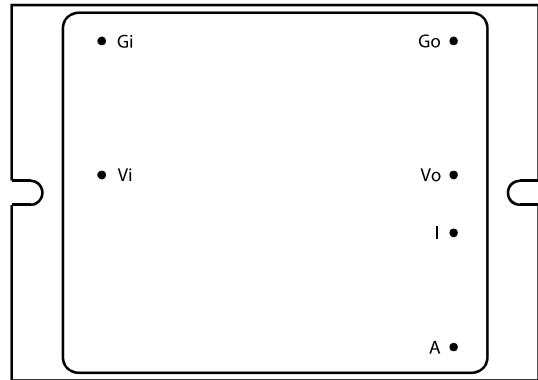


All cases, bottom view

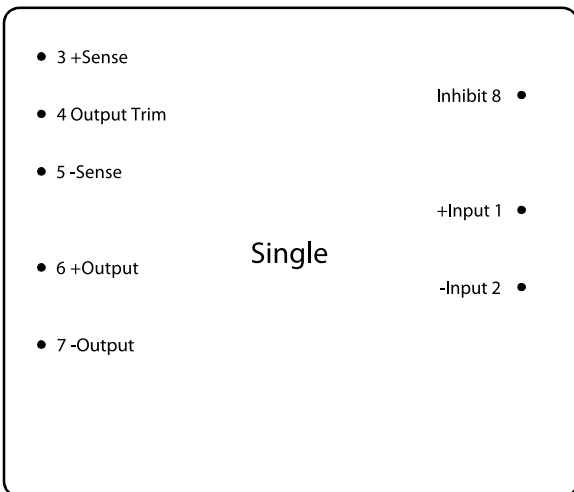
Pinning F1



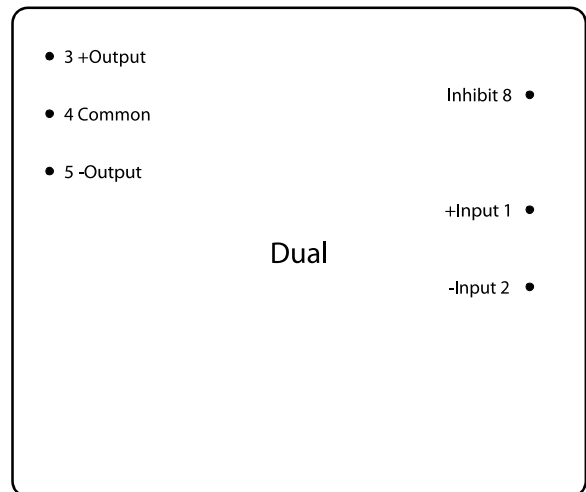
Pinning F2



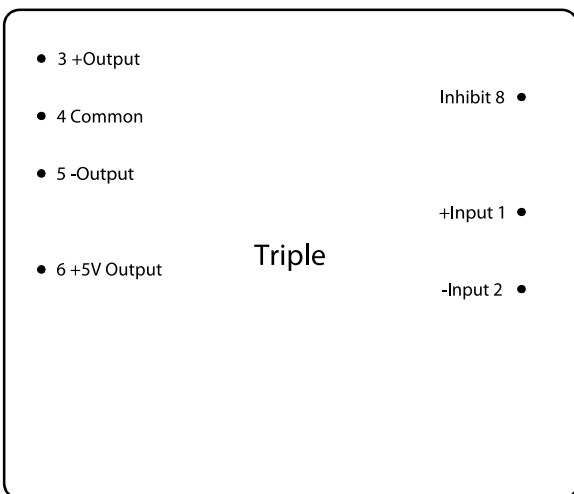
Pinning E1



Pinning E2



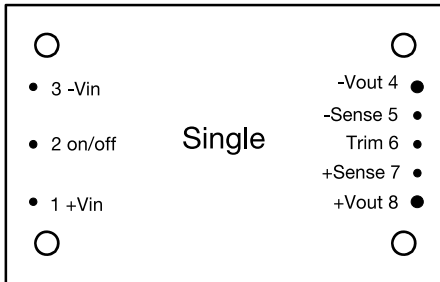
Pinning E3



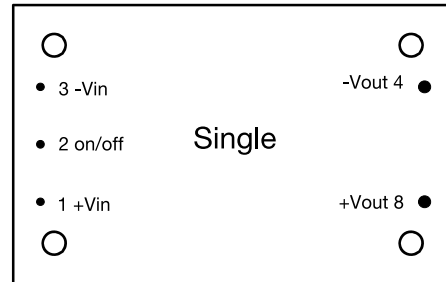


## Brick cases, bottom view

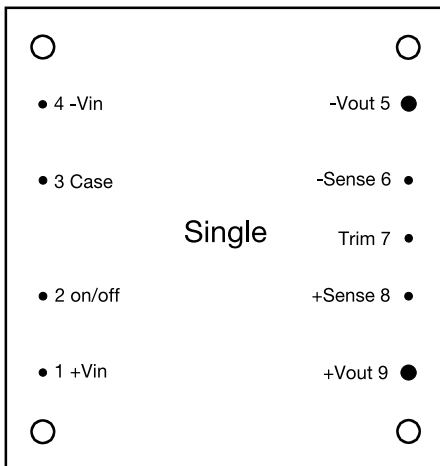
Pinning QB1



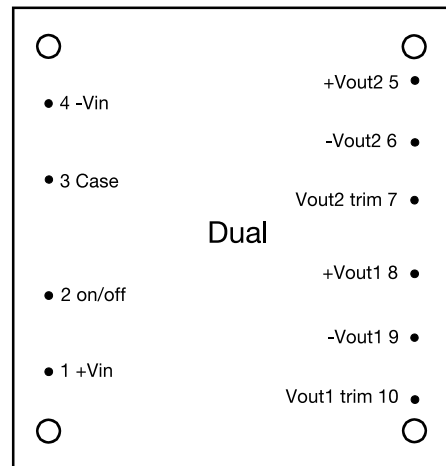
Pinning QB2



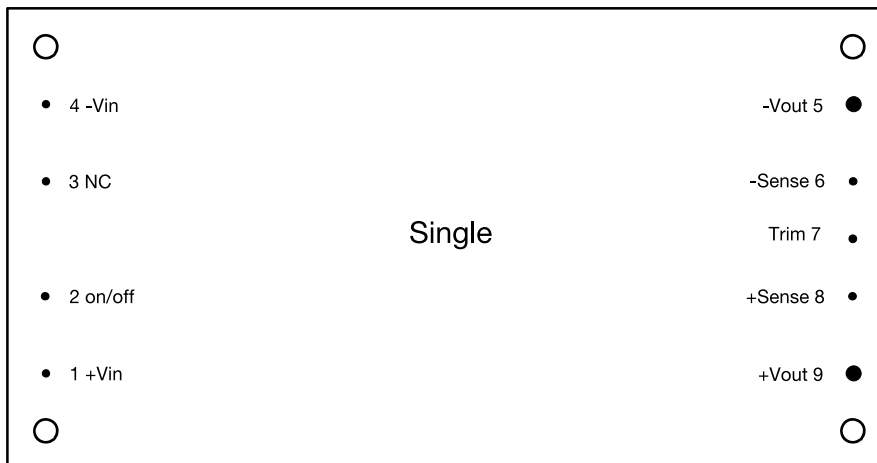
Pinning HB1



Pinning HB2

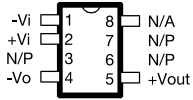


Pinning FB1

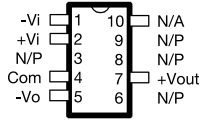


SMD cases, top view

Pinning SMD8

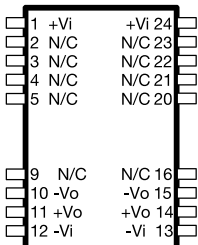


Pinning SMD10

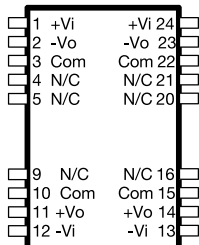


AS cases, top view

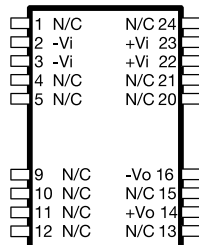
Pinning AS1



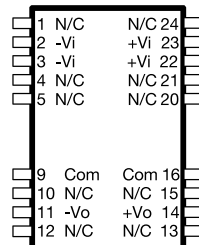
Pinning AS2



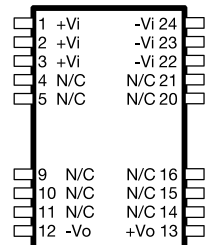
Pinning AS4



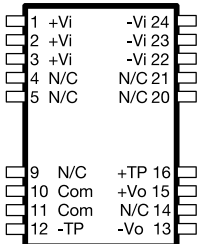
Pinning AS5



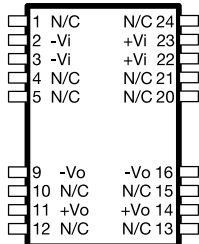
Pinning AS6



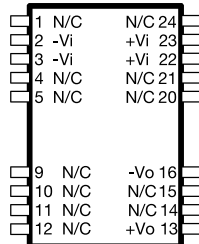
Pinning AS7



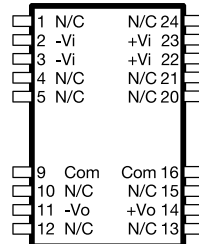
Pinning AS8



Pinning AS9

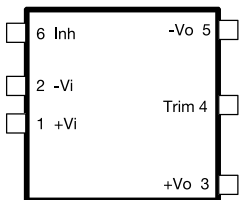


Pinning AS10

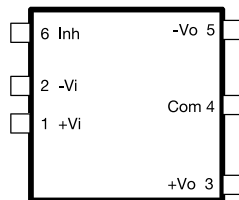


SBS cases, top view

Pinning SBS1

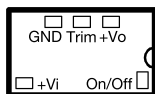


Pinning SBS2

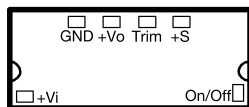


P-SMD cases, bottom view

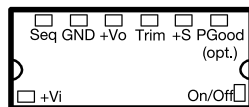
Pinning P-SMD1



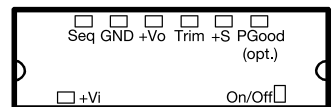
Pinning P-SMD2



Pinning P-SMD3



Pinning P-SMD4



# Spezial-Produkte

## Wir nutzen unsere ganze Energie für Sie

Auf individuelle und spezifische Kundenbedürfnisse können wir dank unserer langjährigen Erfahrung flexibel eingehen. Als Systemanbieter sind wir zudem auch in Verbindung mit anderen Produktgruppen (z. B. Kabelkonfektion) ein kompetenter und erfolgreicher Partner. Unsere Vielseitigkeit belegen Referenzobjekte aus den Bereichen Automotive, Industrie, Medizin, Kabelfernsehen, Gebäudesicherheit, Schienenfahrzeugbau ebenso wie Projekte für Endverbraucher.

Maximale Zuverlässigkeit im Dauereinsatz und ein Höchstmass an Effizienz sind in der Entwicklung von kundenspezifischen Lösungen entscheidend. Unsere Fertigungsstätten in Europa und Fernost sowie internationale Partnerschaften gewährleisten ein optimales Preis-Leistungs-Verhältnis.

So realisieren wir in Verbindung mit den individuellen, technischen und ökonomischen Aspekten nachhaltige Lösungen für unsere Kunden und sichern mit kompetenten, flexiblen und zeitnahen Leistungen in den Bereichen Service und Support maximale Zufriedenheit.

### IHRE VORTEILE ALS UNSER KUNDE

#### Umfassend

##### Individuelles Produktangebot:

Individuelle Stromversorgungsprodukte werden nach den Vorgaben des Kunden in partnerschaftlicher Zusammenarbeit entwickelt und gefertigt. Unsere eigene R&D-Abteilung setzt innovative Konzepte um. Zusammen bieten wir beste Performance in den Bereichen:

- OEM's (Original-Equipment-Manufacturer)
- individuelle Anpassungen ab Standard-Produkte
- Konstruktionen und Layouts
- Prototypen
- Vorserien
- Serienproduktion

#### Versiert

Unsere erfahrene Entwicklungsabteilung sorgt dafür, dass Sie genau die Stromversorgung bekommen, die Sie benötigen. Und unsere moderne Produktion garantiert höchste Qualität auch bei der kundenspezifischen Klein- und Mittelserienfertigung. Für OEM's sind wir Ihr Partner, wo Sie als Kunde die Spezifikation definieren. In allen Fällen erhalten Sie eine exakte auf Ihre Bedürfnisse zugeschnittene Lösung:

- Eine Lösung exakt passend für Ihre elektrisch und mechanische Anwendung
- Einhaltung aller geforderten nationalen und internationalen Normen
- Hohe Qualität und Zuverlässigkeit
- Bestes Preis-/Leistungsverhältnis

#### Vielseitig

##### OEM's werden in vielen Bereichen eingesetzt:

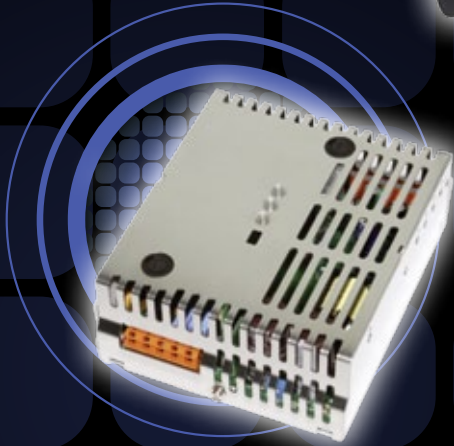
Automotive, Industrie, Medizin, Security, Defense, Kabelfernsehen, Gebäudesicherheit, Schienenfahrzeugbau ebenso wie Projekte für Endverbraucher.

#### Zertifiziert

Unser Unternehmen ist zertifiziert nach DIN EN ISO9001:2008.

Weiterhin ist unsere Produktion durch die Prüfstelle «VdS – Vertrauen durch Sicherheit» zugelassen.





# Cabling-Systeme

## Kabelkonfektionierung nach Mass – rund um die Leiterplatte

Mit der CAC Fabrimex GmbH (100%ige Tochter der Fabrimex AG), mit Sitz in Gerstetten (Baden-Württemberg), sind wir als Dienstleister im Bereich Kabelkonfektion für kleine und mittlere Stückzahlen tätig. An unserem Standort fertigen wir mit hochwertigen Werkzeugen auf modernen Halb- und Vollautomaten innovative, preiswerte und zuverlässige Lösungen. Alle Leitungen werden zu 100 % elektrisch getestet, auf Wunsch auch mit einem Hochspannungstest bis 1000 V. Selbstverständlich verfügen wir auch über ein Schliffbildgerät.

Das Know-how unserer Mitarbeitenden und die Bereitschaft, unsere Kunden voll und ganz zufriedenzustellen, ermöglichen uns, Kundenanforderungen in kürzester Zeit umzusetzen.

### IHRE VORTEILE ALS UNSER KUNDE

#### Umfassend

##### Vollständiges Produktangebot:

- Einzeladerkonfektionen von 0,06 qmm bis 6,0 qmm
- konfektionierte Rundkabel mit und ohne Abschirmung
- Flach- und Rundfachbandkabel in den Rastern 0,635/1,0/1,27 und 2,5 mm
- Kabelsätze für elektronische Baugruppen nach Kundenwunsch
- Kabelbäume für diverse Anwendungen
- Datenkabelkonfektionen
- Koaxkabel im Bereich Medizintechnik/Durchflusstechnik

Alle unsere Produkte werden neutral mit unserem Produktionscode bedruckt oder gelabelt, sodass eine hundertprozentige Rückverfolgbarkeit gewährleistet ist.

#### Versiert

##### Unsere Leitungen verarbeiten wir in verschiedenen Techniken:

- Crimptechnik
- Schneidklemmtechnik
- Infrarotlöttechnik
- Quetschtechnik
- Feinlöttechnik

#### Lieferantenunabhängig

Bei uns kommen Steckverbinder und Kabel/Leitungen aller namhaften Hersteller zum Einsatz (z. B. Erni, Huber+Suhner, FCI, FCT, Tyco, JST, Molex, Hirose, Binder, Lemo, Phoenix, 3M, Harting, Pro-vertha, Leoni, Helu, Lapp und Medi-Kabel).

#### Vielseitig

##### Unsere konfektionierten Leitungen werden in diversen Bereichen eingesetzt, so z. B.:

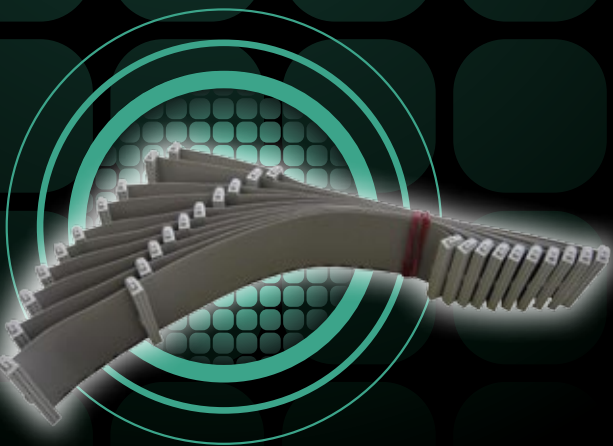
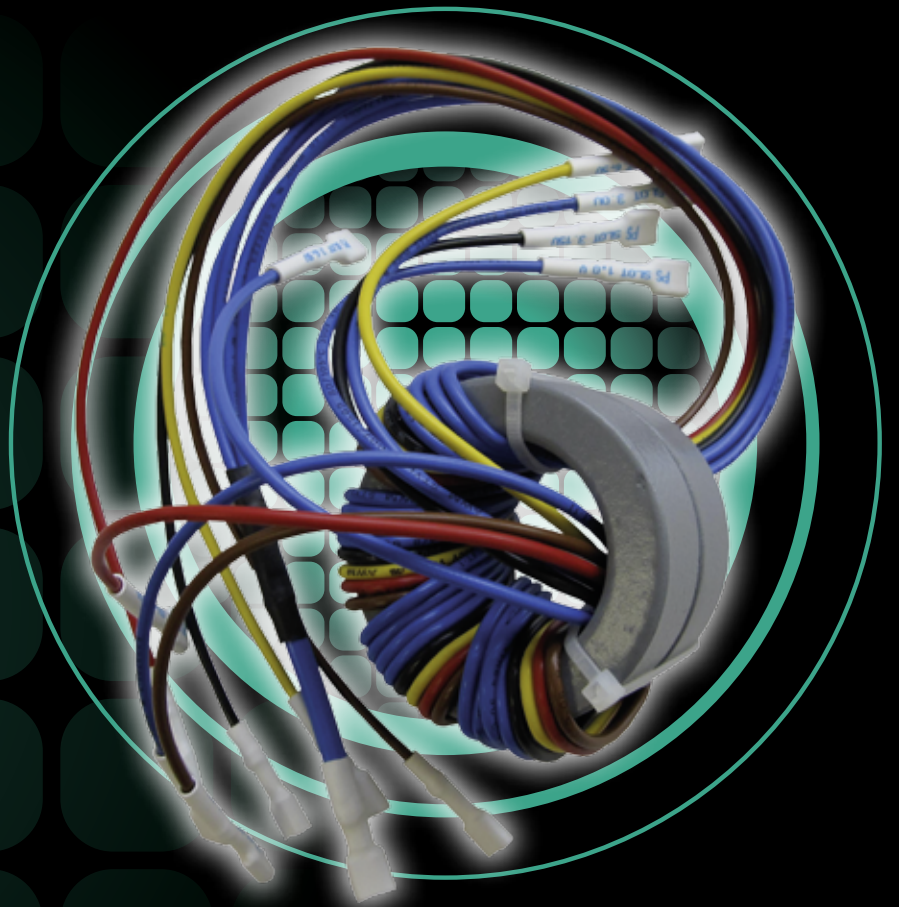
- Brandmelde- und Sicherheitstechnik
- Medizintechnik
- Maschinenbau
- Steuer- und Regeltechnik
- Telekom- und Datenverarbeitung

#### Zertifiziert

Unser Unternehmen ist zertifiziert nach DIN EN ISO9001:2008.







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www.powerfactor.co.uk

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www.elgertagroup.com

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www.unirep.fr

## VP Electronique

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Fax: +33 (0)1 69 20 27 58  
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www.vpelec.com

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