

IEC-320-C14 Inlet



IEC-320-C8 Inlet



IEC-320-C6 Inlet



Size: 3.94in x 2.3in x 1.29in (100mm x 58.5mm x 32.8mm)

OPTIONS

- AC Inlet
 - IEC-320-C14
 - IEC-320-C8
 - IEC-320-C6
- Output Connector

FEATURES

- Universal Input Voltage of 100~240VAC
- Output Voltages Ranging from 5V~48V
- Single Outputs
- High Efficiency Up to 85.45%
- Optional AC Inlets Available
- Optional Output Connectors Available
- Short Circuit, Over Voltage, and Over Current Protection
- Meets EISA 2007/DoE VI &EU ErP/CoC 5
- UL60950-1, CSA C22.2, EN60950-1, IEC60950-1, and J60950-1 Safety Approvals

DESCRIPTION

The DTGPSU18 series of AC DC desktop power supplies offers up to 18 watts of output power in a 3.94" x 2.3" x 1.29" package. This series consists of single output models with a universal input range of 100~240VAC and output voltages ranging from 5V~48V. Three AC inlets are available for the models: IEC-320-C14, IEC-320-C8, or IEC-320-C6. Each model in this series is protected against short circuit, over voltage, and over current conditions and also has UL60950-1, CSA C22.2, EN60950-1, IEC60950-1 and J60950-1 safety approvals. This series has a high efficiency up to 85.45% and are efficiency Level VI compliant. Please call factory for order details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage Range	Measured at Output	Output Current		Ripple & Noise	No Load Power Consumption	Output Power	Efficiency ⁽²⁾	
				Min Load	Max Load				DoE (VI)	CoC (5)
DTGPSU18x-1	100~240VAC	5~6VDC	5	2.50A	3.00A	80mV	<0.075	15W	81.39%	81.84%
DTGPSU18x-2		8~11VDC	9	1.64A	2.25A	100mV		18.04W	85%	85.45%
DTGPSU18x-3		11~13VDC	12	1.38A	1.64A	120mV		18.04W	85%	85.45%
DTGPSU18x-4		13~16VDC	15	1.13A	1.38A	150mV		18.08W	85%	85.45%
DTGPSU18x-5		16~21VDC	18	0.86A	1.13A	150mV		18.08W	85%	85.45%
DTGPSU18x-6		21~27VDC	24	0.67A	0.86A	150mV		18.09W	85%	85.45%
DTGPSU18x-7		27~33VDC	28	0.55A	0.67A	240mV		18.15W	85%	85.45%
DTGPSU18x-8		33~58VDC	48	0.32A	0.55A	240mV		18.56W	85%	85.45%

SPECIFICATIONS

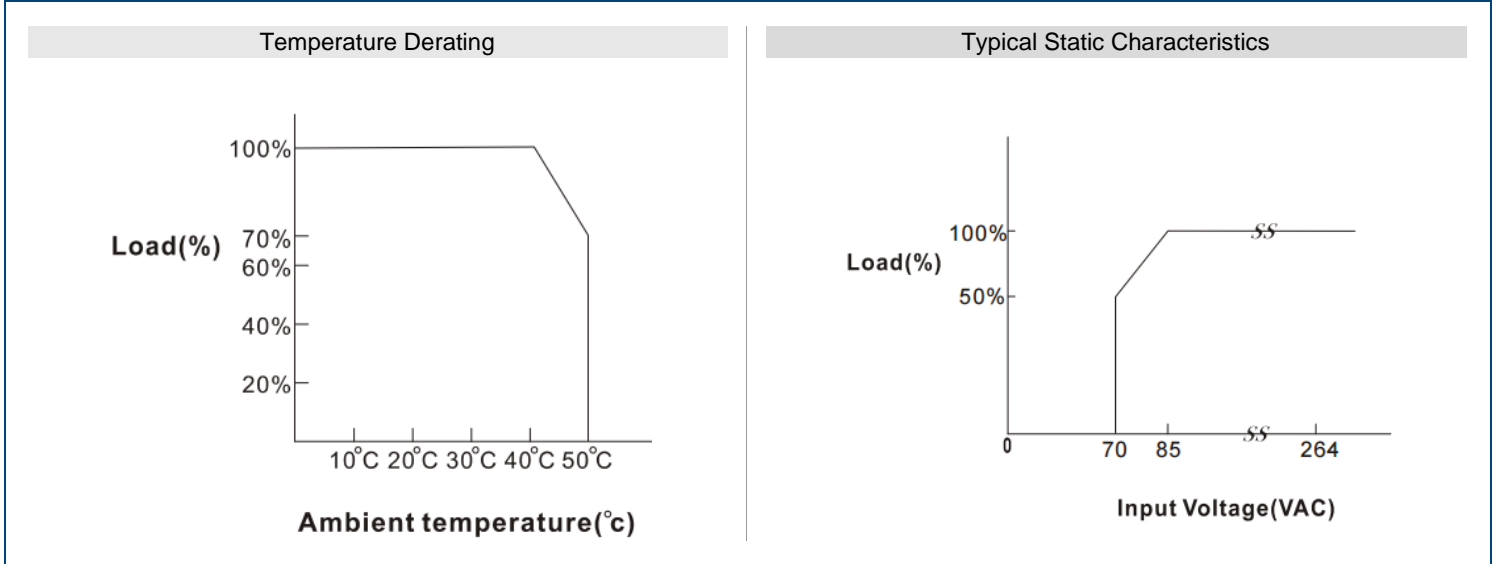
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		47		63	Hz
Input Current		0.45		0.2	A
Inrush Current	@115VAC at 25°C Cold Start		50		A
	@230VAC at 25°C Cold Start		90		A
Leakage Current	@240VAC/50Hz			0.1	mA
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	For any input voltage change between input voltage range	-1		+1	%
Load Regulation	Typical variations from minimum to maximum output current.	-5		+5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise		See Table			
Transient Response	Recovering to 1% of final value within 500µS after a 25% step load change			≥4	%
Setup Time	@Full Load		1000		mS
Hold Up Time	@Full Load		10		mS
Rise Time	@Full Load		50		mS
Temperature Coefficient	All outputs			±0.04	%/°C
PROTECTION					
Short Circuit Protection	Hiccup Mode	Automatic Recovery			
Over Current Protection	Hiccup Mode	Automatic Recovery			
	Rated Output Current	110%			
Over Voltage Protection	Protected by Zener Diode				
	Rated Output Voltage	110		140	%
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature		0		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%
Derating	Derated from 100% at +40°C linearly to 70% at 50°C				
MTBF	@Full Load at 25°C ambient	100,000			hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Insulation Resistance	Input to Output	50			MΩ
Withstand Voltage	Input to Output		4242		VDC
PHYSICAL SPECIFICATIONS					
Weight		4.94~5.64oz (140~160g)			
Dimensions (L x W x H)		3.94in x 2.3in x 1.29in (100mm x 58.5mm x 32.8mm)			
SAFETY					
Safety Approvals		UL60950-1 CSA C22.2 EN60950-1 IEC60950-1 J60950-1			
EMC	CE: Emission: EN55022; EN61000-3-2,3/ Immunity: IEC61000-4-2,3,4,5,6,11 FCC 47 CFR Part 15 Subpart B				

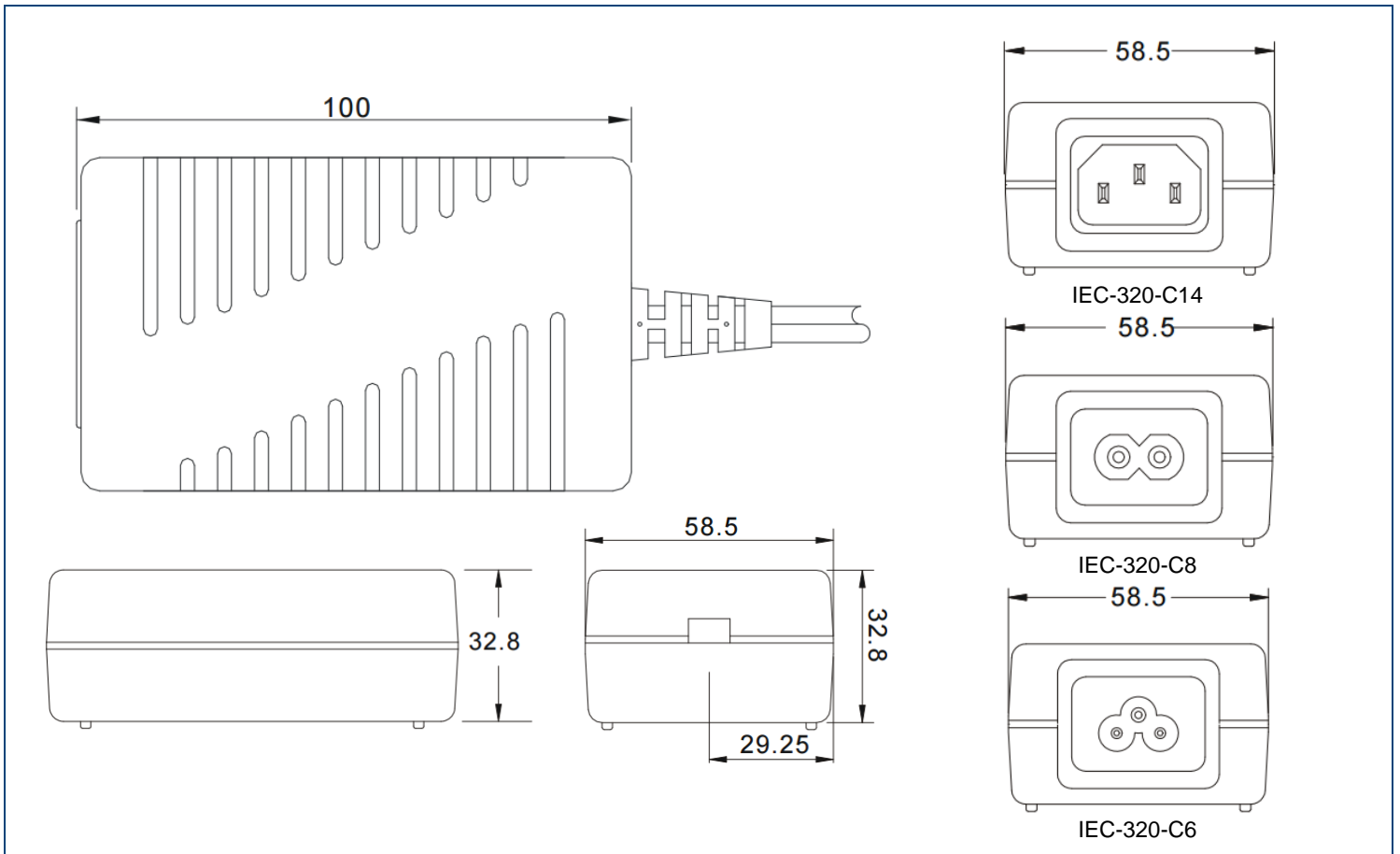
NOTES

- (1) "x" in model number references the AC inlet options. "x" can either be "A" for IEC-320-C14, "B" for IEC-320-C8, or "C" for IEC-320-C6.
- (2) Avg. Efficiency: Averages the efficiency at 25, 50, 75, and 100% of max. rated output current.
- (3) Optional output connectors available
Standard Output Cables: 5~11V: UL1571, 16AWG, 1M
11~13V: UL2468, 18AWG, 1M
13~58V: UL2468, 22AWG, 5FT

DERATING CURVES



MECHANICAL DRAWINGS



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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