SERIES: ETSA 12W | **DESCRIPTION:** AC-DC POWER SUPPLY

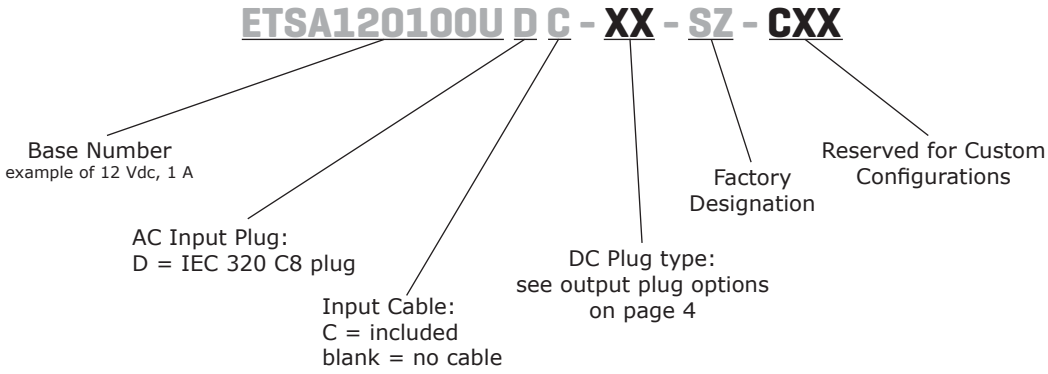
FEATURES

- up to 12 W power
- compact size
- universal input (90~264 Vac)
- single regulated output from 5~24 V
- over voltage and short circuit protection
- UL/cUL and GS safety approvals
- level V efficiency
- custom designs available

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
ETSA050200U	5	2	10	150	V
ETSA060200U	6	2	12	150	V
ETSA090133U	9	1.33	12	150	V
ETSA120100U	12	1	12	150	V
ETSA150080U	15	0.8	12	150	V
ETSA180066U	18	0.66	12	150	V
ETSA240050U	24	0.5	12	150	V

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10 µF aluminum electrolytic and 0.1 µF ceramic capacitors.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	nom	max	units
voltage		85		264	Vac
frequency		47		63	Hz
current				0.3	A
inrush current	115 Vac, cold start 230 Vac, cold start			30 60	A A
no load power consumption				0.3	W

OUTPUT

parameter	conditions/description	min	nom	max	units
line regulation	5V model all other models		±1 ±5		%
load regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	nom	max	units
over voltage protection	output voltage clamped by internal protection zener				
short circuit protection	output shut down and auto restart				

SAFETY & COMPLIANCE

parameter	conditions/description	min	nom	max	units
isolation voltage	input to output at 10 mA for 1 minute			3,000 4,242	Vac Vdc
isolation resistance	input to output at 500 V dc	100			MΩ
safety approvals	UL 60950-1, EN 60950-1/IEC 60950-1				
EMI/EMC	FCC class B, CE, VCCI, EN 61204-3, EN 55022, EN 55024 EN 61000-3-(2, 3), IEC 61000-4-(2, 3, 4, 5, 6, 8, 11), CE				
leakage current				0.25	mA
RoHS compliant	yes				

ENVIRONMENTAL

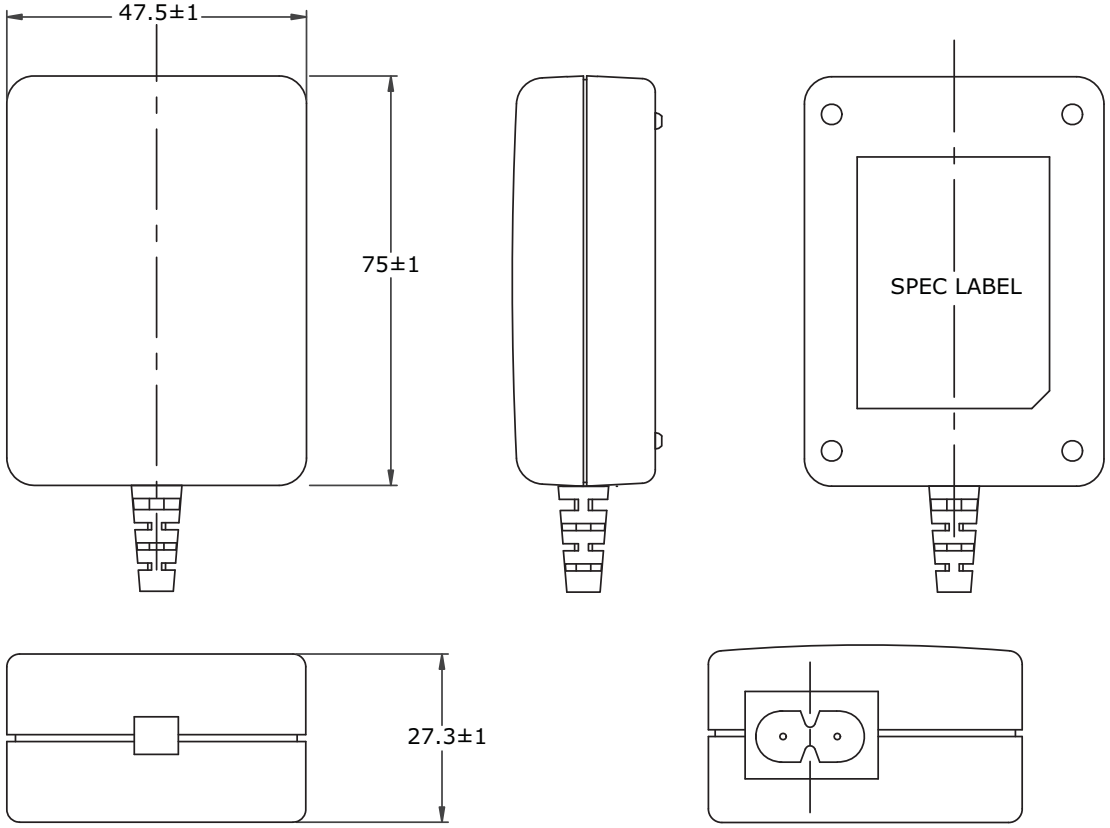
parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-10		70	°C
operating humidity		20		80	%
storage humidity		10		90	%

MECHANICAL

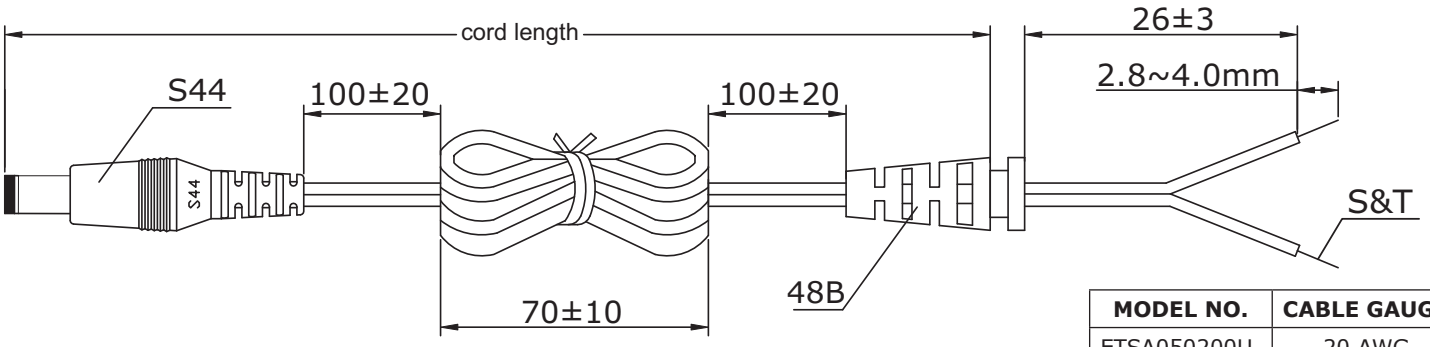
parameter	conditions/description	min	typ	max	units
dimensions	2.953 x 1.870 x 1.075 (75 x 47.5 x 27.3 mm)				inch
input plug	IEC320 / C8				

MECHANICAL DRAWING

units: mm



DC CORD

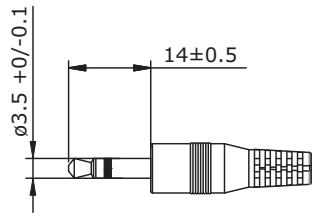


MODEL NO.	CABLE GAUGE
ETSA050200U	20 AWG
ETSA060200U	18 AWG
ETSA090133U	20 AWG
ETSA120100U	22 AWG
ETSA150080U	22 AWG
ETSA180066U	24 AWG
ETSA240050U	24 AWG

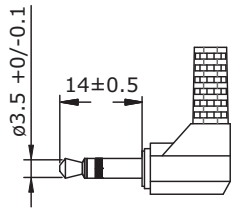
Black wire, white stripe: Positive

OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



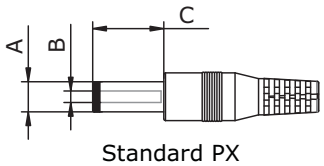
P1



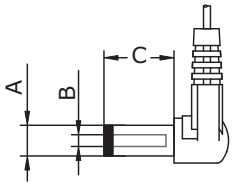
P1R

*Tip positive

Standard DC Plug



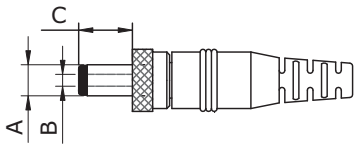
Standard PX



Right Angle PXR

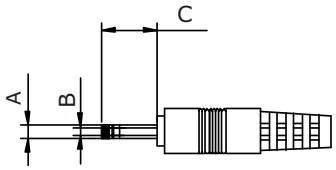
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

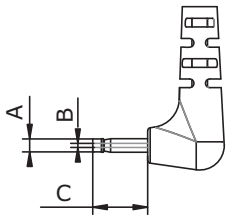


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

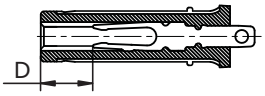


Standard PXX

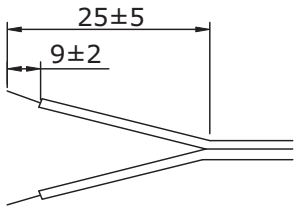


Right Angle PXXR

	EIAJ	A	B	C	D	Unit
P12/P12R	EIAJ-1	2.35	0.7	9.5	NA	mm
P13/P13R	EIAJ-2	4.0	1.7	9.5	5.0	mm
P14/P14R	EIAJ-3	4.75	1.7	9.5	5.0	mm



Stripped and Tinned



DC PLUG TYPE

ST

Stripped and Tinned

PXX X X

Plug Type

Plug Angle:
"Blank" = Standard
R = Right Angle

Plug Polarity:
"Blank" = N/A
P = Center Positive

N = Center Negative

*Contact CUI for additional output plug options.

REVISION HISTORY

rev.	description	date
1.0	initial release	01/25/2010
1.01	new template applied	12/22/2011
1.02	updated P7/P7R B dimension	04/06/2012
1.03	V-Infinity branding removed, safety and EMI/EMC data updated	08/21/2012

The revision history provided is for informational purposes only and is believed to be accurate.

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