SERIES: ETSA 60W | **DESCRIPTION:** AC-DC POWER SUPPLY

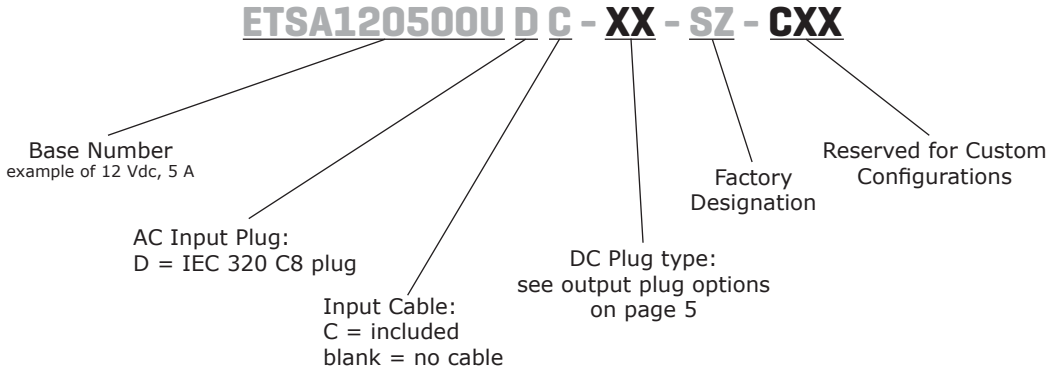
FEATURES

- up to 60 W power
- universal input (90~264 Vac)
- single regulated output from 12~48V
- over voltage and short circuit protections
- UL/cUL and TUV 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
ETSA120500UDC	12	5.0	60	150	V
ETSA190342UDC	19	3.42	60	190	V
ETSA240270UDC	24	2.70	60	240	V
ETSA480125UDC	48	1.25	60	190	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		90		264	Vac
frequency		47		63	Hz
current	12 V model all other models			1.4 1.5	A A
no load power consumption	12 V model all other models			0.5 0.3	W W

OUTPUT

parameter	conditions/description	min	nom	max	units
line regulation			±1		%
load regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	nom	max	units
over voltage protection	24 V model 19, 48 V models			36 32	Vdc Vdc
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/cUL (UL 60950-1), CE, EN 60950-1/IEC 60950-1				
EMI/EMC	FCC part 15, subpart b, class B; CE; CISPR 22, class B; ICES-003; VCCI; EN 61204-3; EN 55022; EN 55024; EN 61000-(2, 3); IEC 61000-4-(2, 3, 4, 5, 6, 8, 11)				
leakage current				0.25	mA
RoHS compliant	yes				

ENVIRONMENTAL

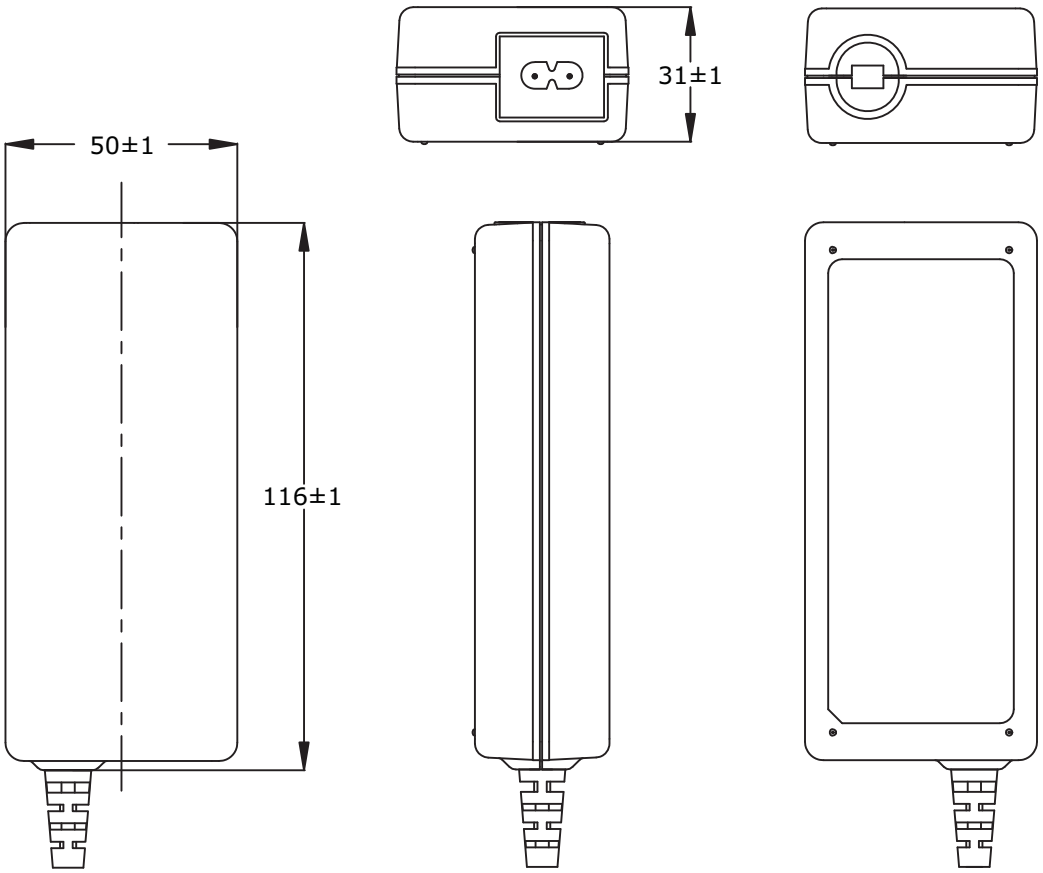
parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-10		70	°C
operating humidity		20		80	%
storage humidity		10		90	%

MECHANICAL

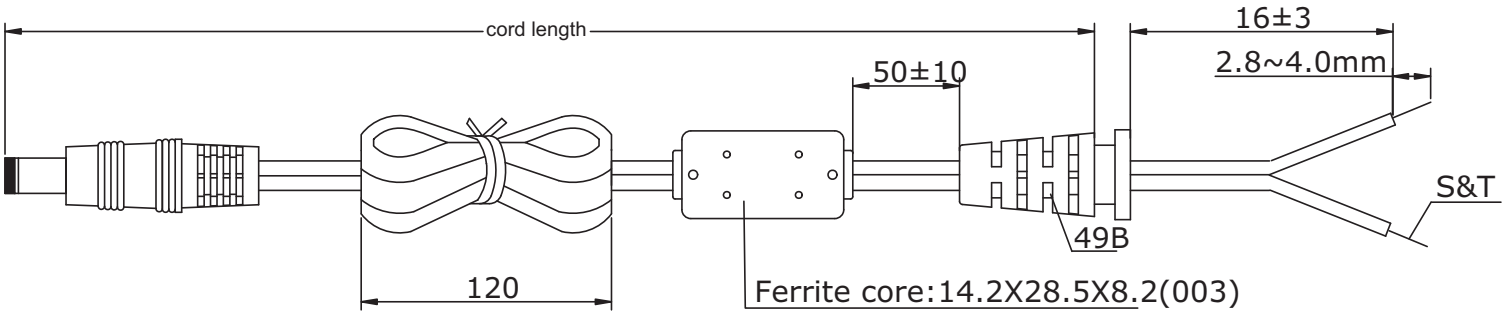
parameter	conditions/description	min	typ	max	units
dimensions	4.567 x 1.969 x 1.220 (116 x 50 x 31 mm)				inch
input plug	IEC320 / C8				

MECHANICAL DRAWING

units: mm



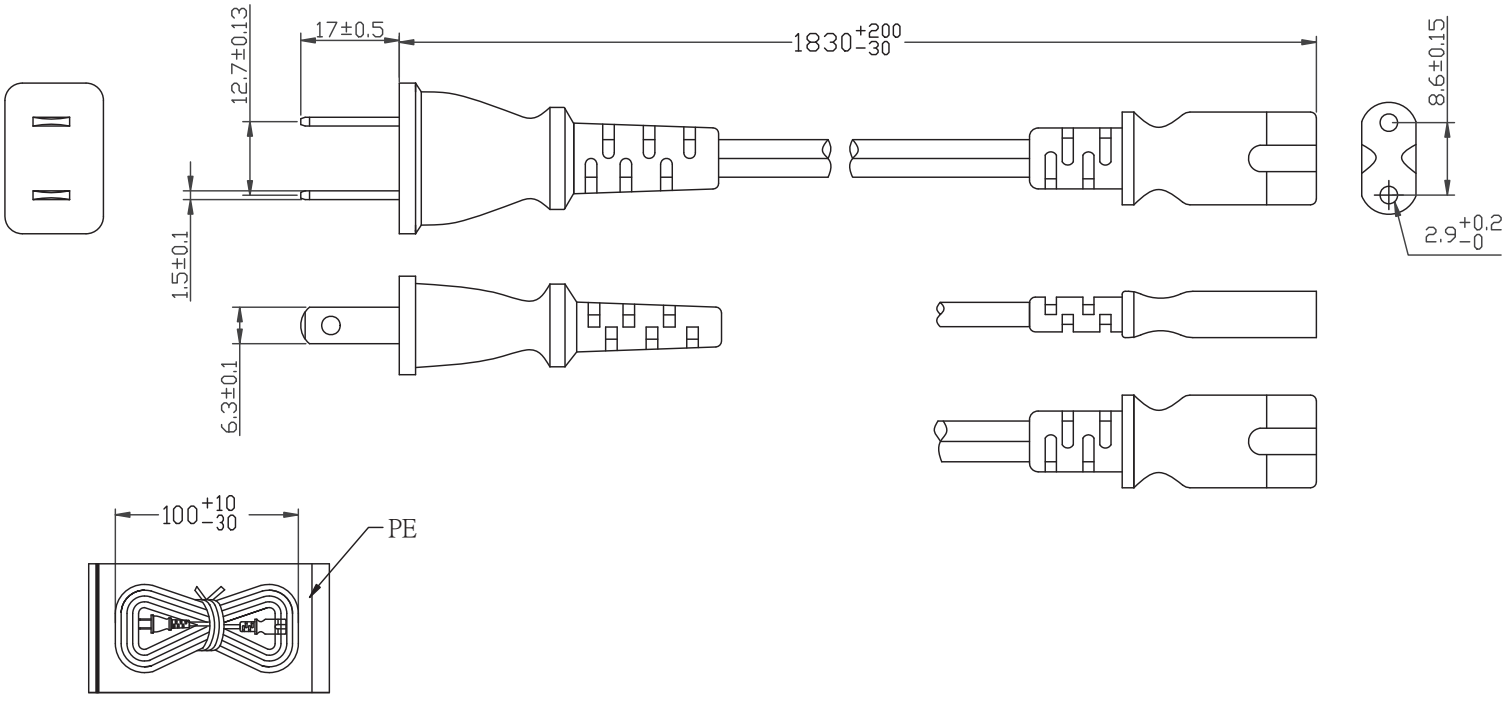
DC CORD



Black wire, white stripe: Positive

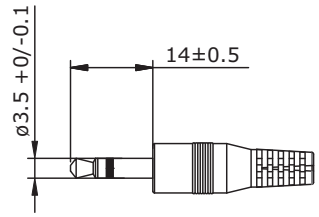
MODEL NO.	CABLE GAUGE	CORD LENGTH
ETSA120500UDC	16 AWG	1,600 mm ±50
ETSA190342UDC	18 AWG	1,800 mm ±50
ETSA240270UDC	18 AWG	1,800 mm ±50
ETSA480125UDC	18 AWG	1,800 mm ±50

AC CORD

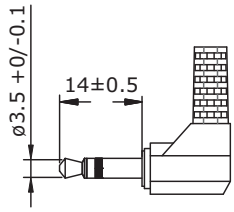


OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



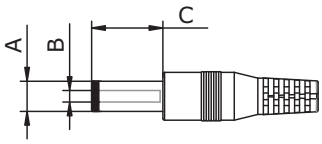
P1



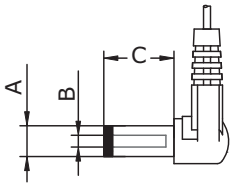
P1R

*Tip positive

Standard DC Plug



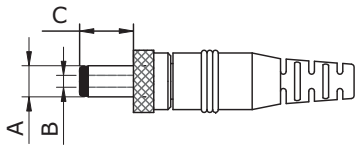
Standard PX



Right Angle PXR

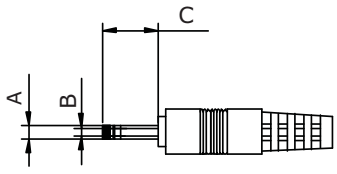
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

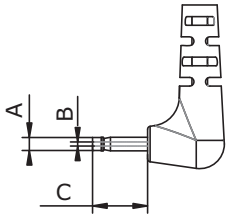


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

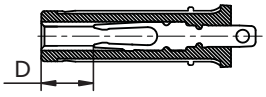


Standard PXX

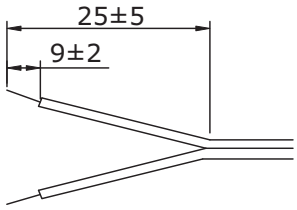


Right Angle PXXR

	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	01/24/2010
1.01	new template applied	12/22/2011
1.02	P7/P7R B dimension updated, 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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