

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

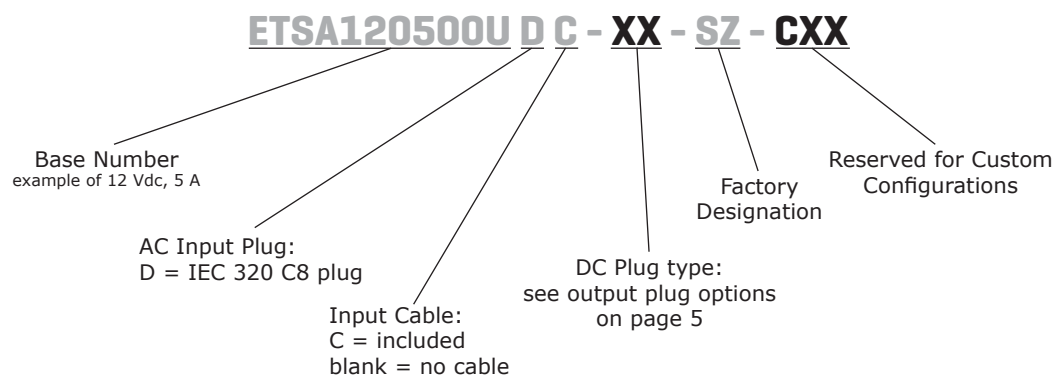
FEATURES

- 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	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
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 μ F aluminum electrolytic and 0.1 μ F 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			1.4	A
	all other models			1.5	A
no load power consumption	12 V model			0.5	W
	all other models			0.3	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			36	Vdc
	19, 48 V models			32	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	Vac
				4,242	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

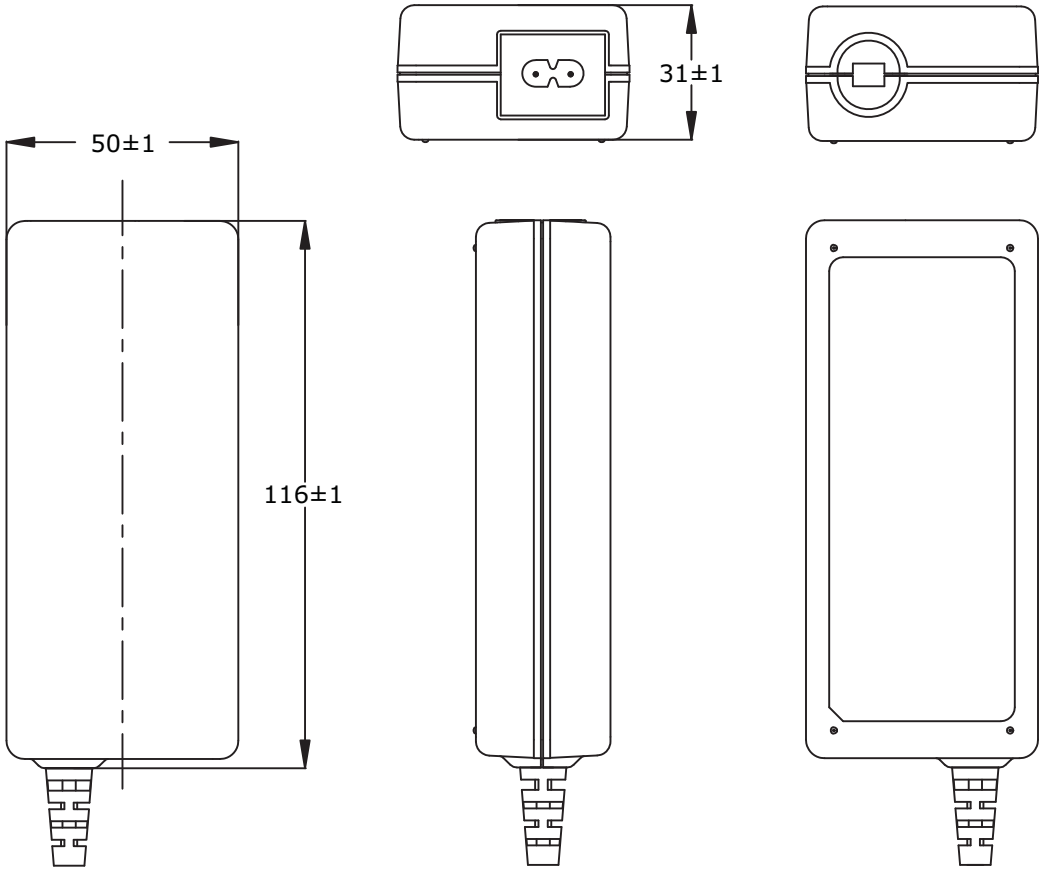
parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-10		70	°C
operating humidity		20		80	%
storage humidity		10		90	%

MECHANICAL

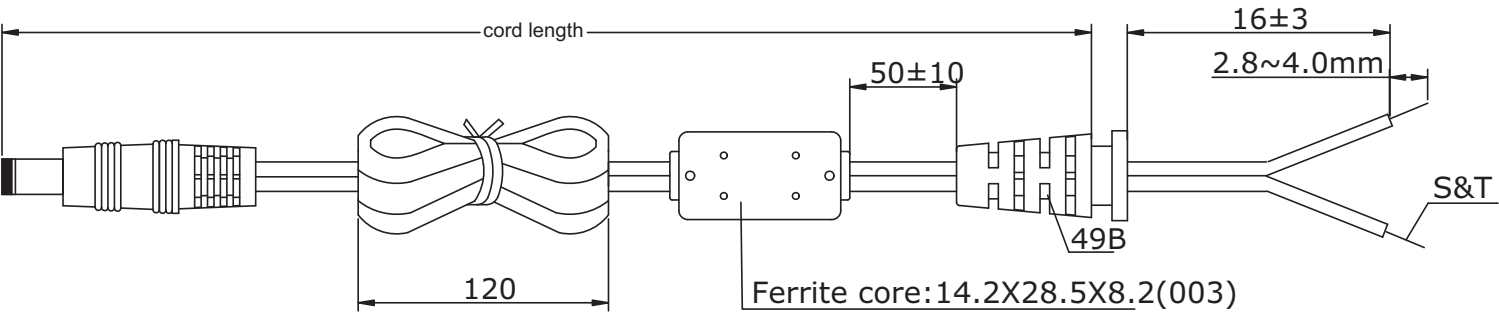
parameter	conditions/description	min	typ	max	units
dimensions	4.567 x 1.969 x 1.220 (116 x 50 x 31 mm)				inch
input plug	IEC320 / C8				

MECHANICAL DRAWING

units: mm



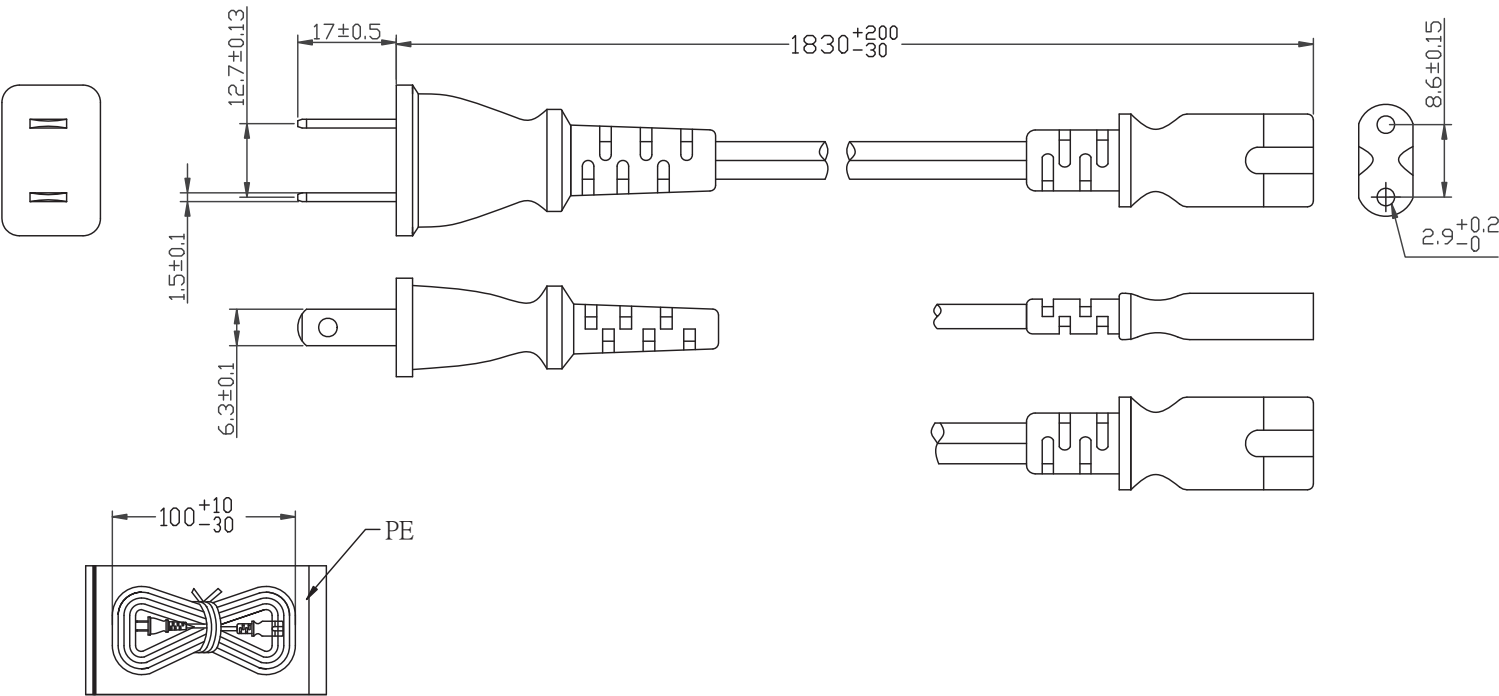
DC CORD



Black wire, white stripe: Positive

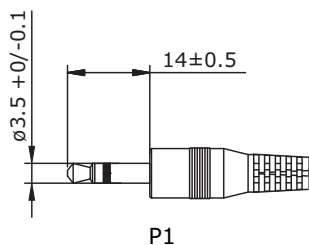
MODEL NO.	CABLE GAUGE	CORD LENGTH
ETSA120500UDC	16 AWG	1,600 mm ±50
ETSA190342UDC	18 AWG	1,800 mm ±50
ETSA240270UDC	18 AWG	1,800 mm ±50
ETSA480125UDC	18 AWG	1,800 mm ±50

AC CORD

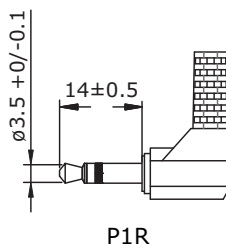


OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



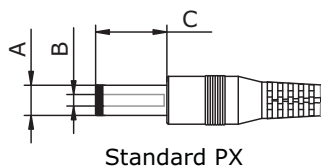
P1



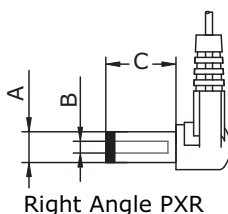
P1R

*Tip positive

Standard DC Plug



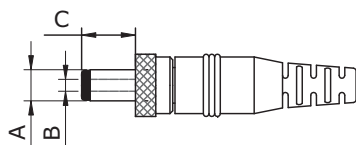
Standard PX



Right Angle PXR

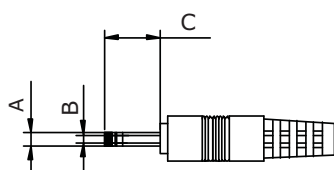
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

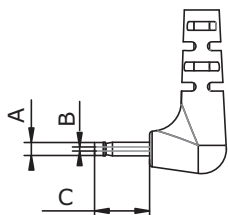


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

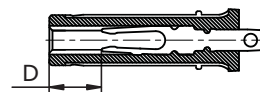


Standard PXX

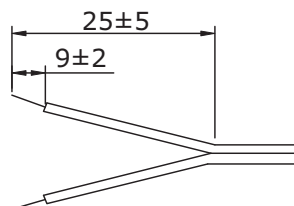


Right Angle PXXR

	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

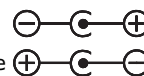
PXXXX

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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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.