

**SERIES:** ETSA 18W-U | **DESCRIPTION:** AC-DC POWER SUPPLY

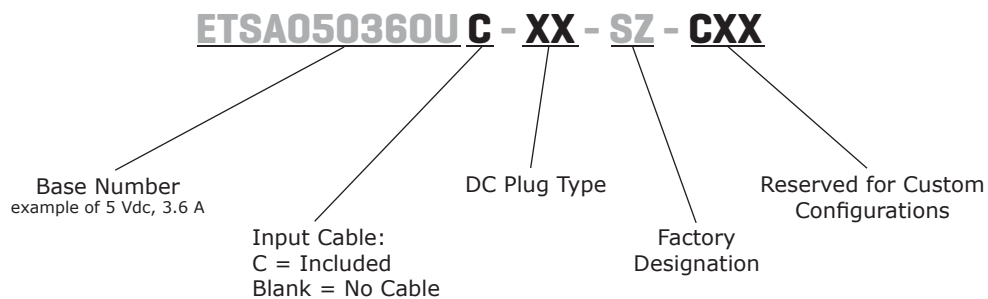
**FEATURES**

- up to 18 W power
- compact size
- universal input (90~264 Vac)
- single regulated output from 5~15 V
- over voltage and short circuit protection
- UL/cUL, GS, PSE safety approvals
- level V efficiency
- custom designs available



<b>MODEL</b>	<b>output voltage</b> (Vdc)	<b>output current max</b> (A)	<b>output power max</b> (W)	<b>ripple and noise<sup>1</sup> max</b> (mVp-p)	<b>efficiency level</b>
ETSA050360U	5	3.6	18	100	V
ETSA060300U	6	3	18	100	V
ETSA120150U	12	1.5	18	100	V
ETSA150120U	15	1.2	18	100	V

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

**PART NUMBER KEY**


**INPUT**

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.5	A
inrush current	at 115 Vac, cool start at 230 Vac, cool start			40 80	A A
no load power consumption				0.3	W

**OUTPUT**

parameter	conditions/description	min	typ	max	units
line regulation	5 V output all other outputs		±5 ±1		% %
load regulation			±5		%

**PROTECTIONS**

parameter	conditions/description
over voltage protection	output voltage clamped by internal protection zener
short circuit protection	output shut down, auto restart

**SAFETY & COMPLIANCE**

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute			1,500 2,121	Vac Vdc
insulation resistance	input to output at 500 Vdc	100			MΩ
safety approvals	UL 60950-1, EN 60950-1, PSE				
EMI/EMC	FCC Class B, CE, CISPR 22 Class B, EN 61204-3, EN 55022 Class B, EN 55024, EN 61000-3-(2, 3) Class A, EN 55024, IEC 61000-4-(2, 3, 4, 5, 6, 8, 11)				
leakage current	5 V output all other outputs			3.5 0.25	mA mA
RoHS compliant	yes				

**ENVIRONMENTAL**

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

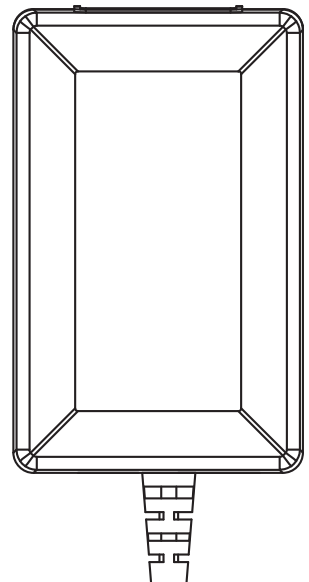
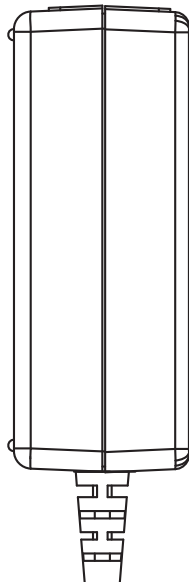
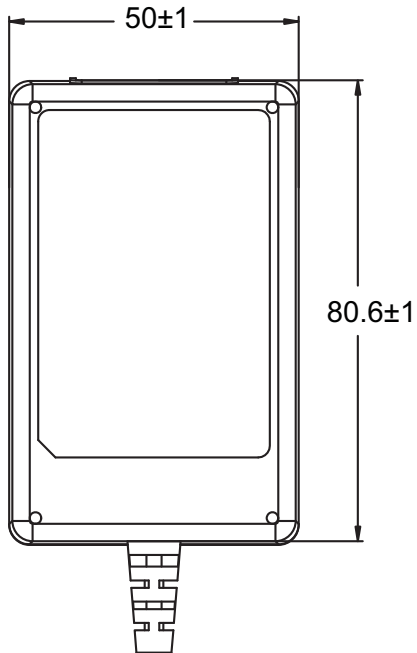
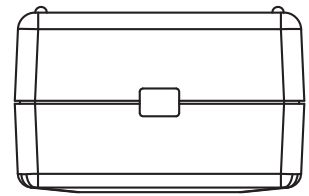
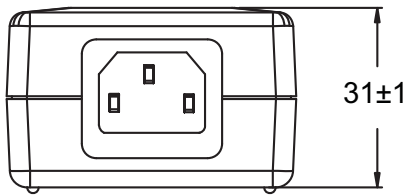
## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	3.173 x 1.969 x 1.220 (80.6 x 50 x 31 mm)				inch
input plug	IEC320 / C14				
weight <sup>1</sup>			115		g

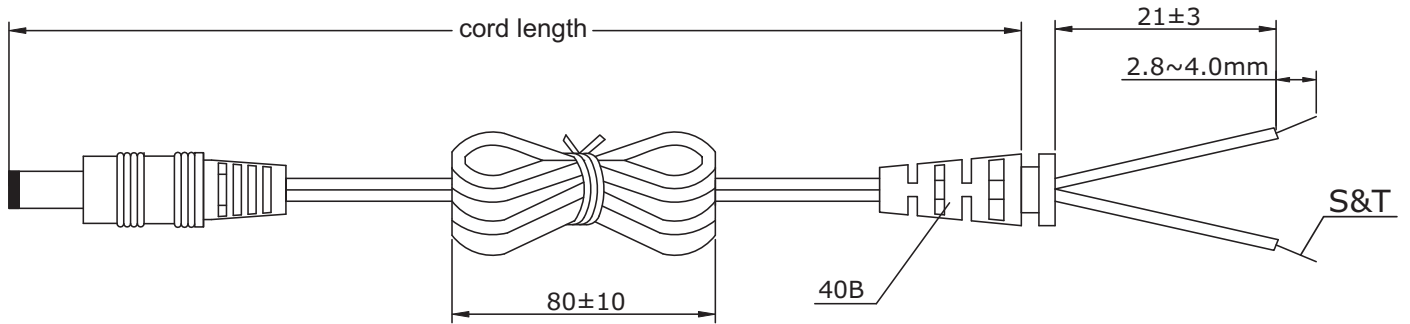
1. weight does not include AC Cord

## MECHANICAL DRAWING

units: mm

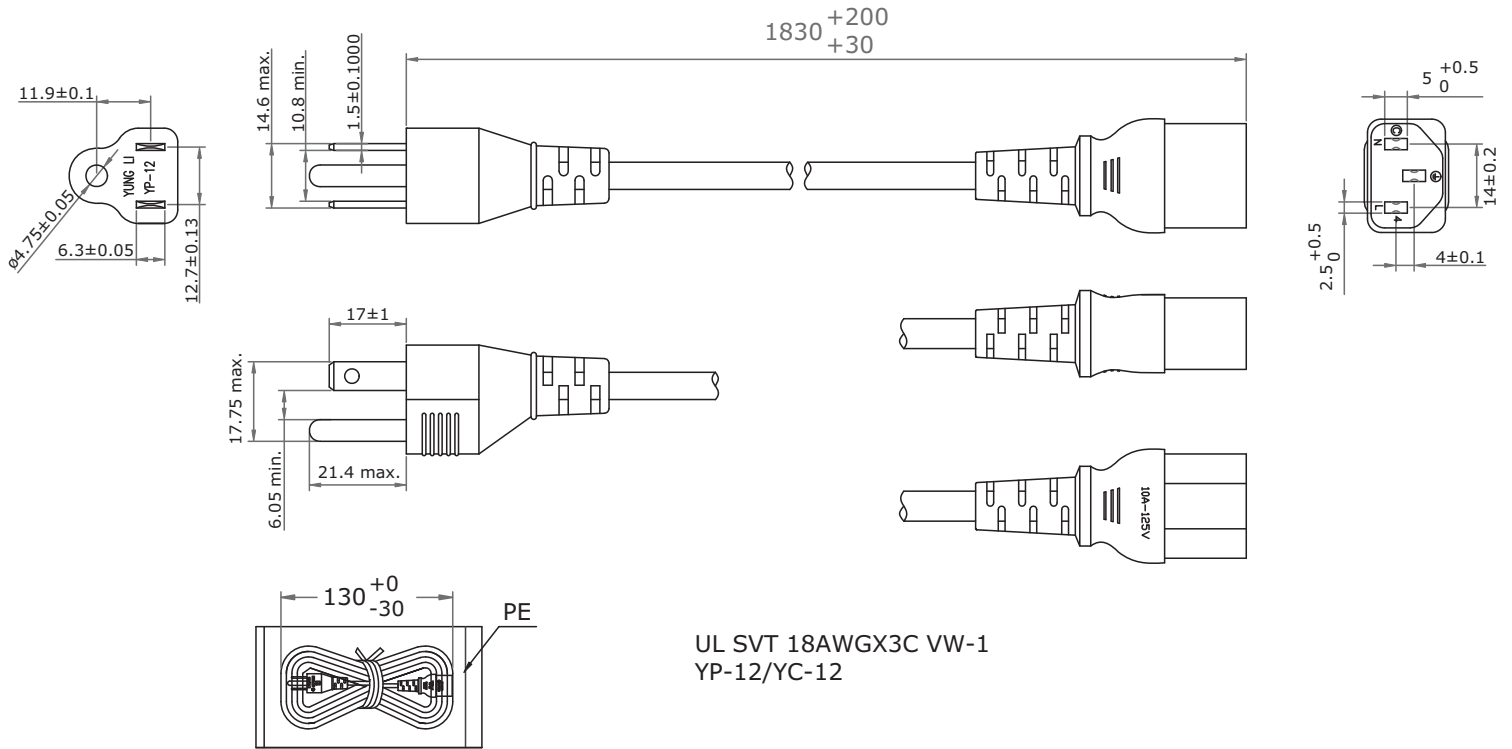


## DC CORD



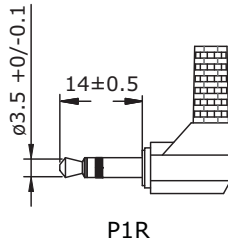
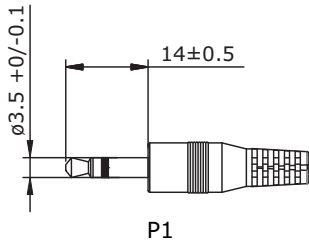
MODEL NO.	CABLE GAUGE	CORD LENGTH
ETSA050360U	18 AWG	1,000 mm ±100
ETSA060300U	18 AWG	1,000 mm ±100
ETSA120150U	20 AWG	1,530 mm ±100
ETSA150120U	20 AWG	1,530 mm ±100

## AC CORD



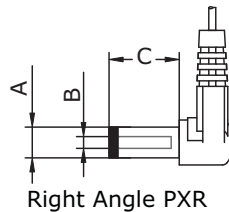
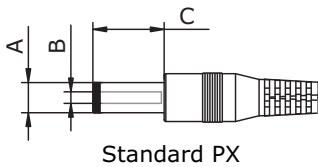
## OUTPUT PLUG OPTIONS

### 3.5 mm Phono Plug



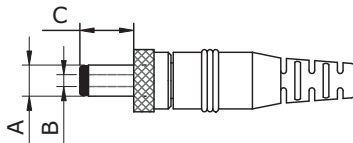
\*Tip positive

### Standard DC Plug



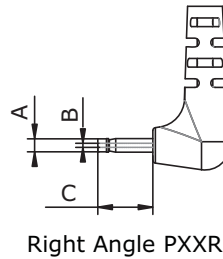
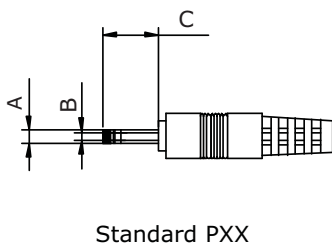
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

### Locking DC Plug

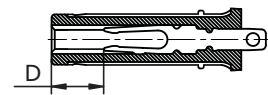


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

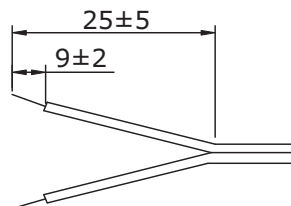
### EIAJ Plugs



	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

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rev.	description	date
1.0	initial release	12/05/2011
1.01	updated P7/P7R B dimension	03/23/2012
1.02	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.