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

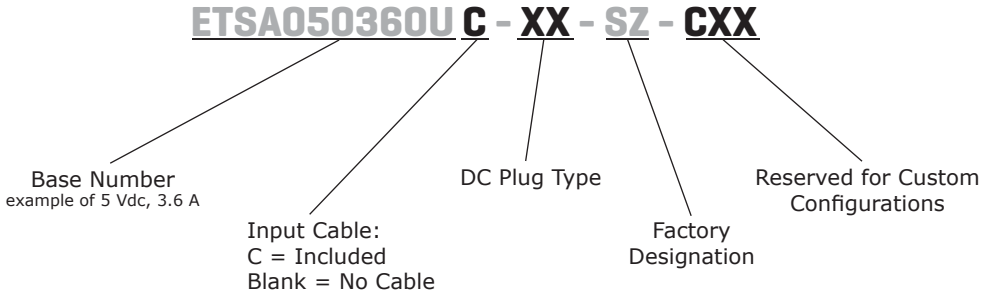
FEATURES

- 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

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
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 µF aluminum electrolytic and 0.1 µF 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	%

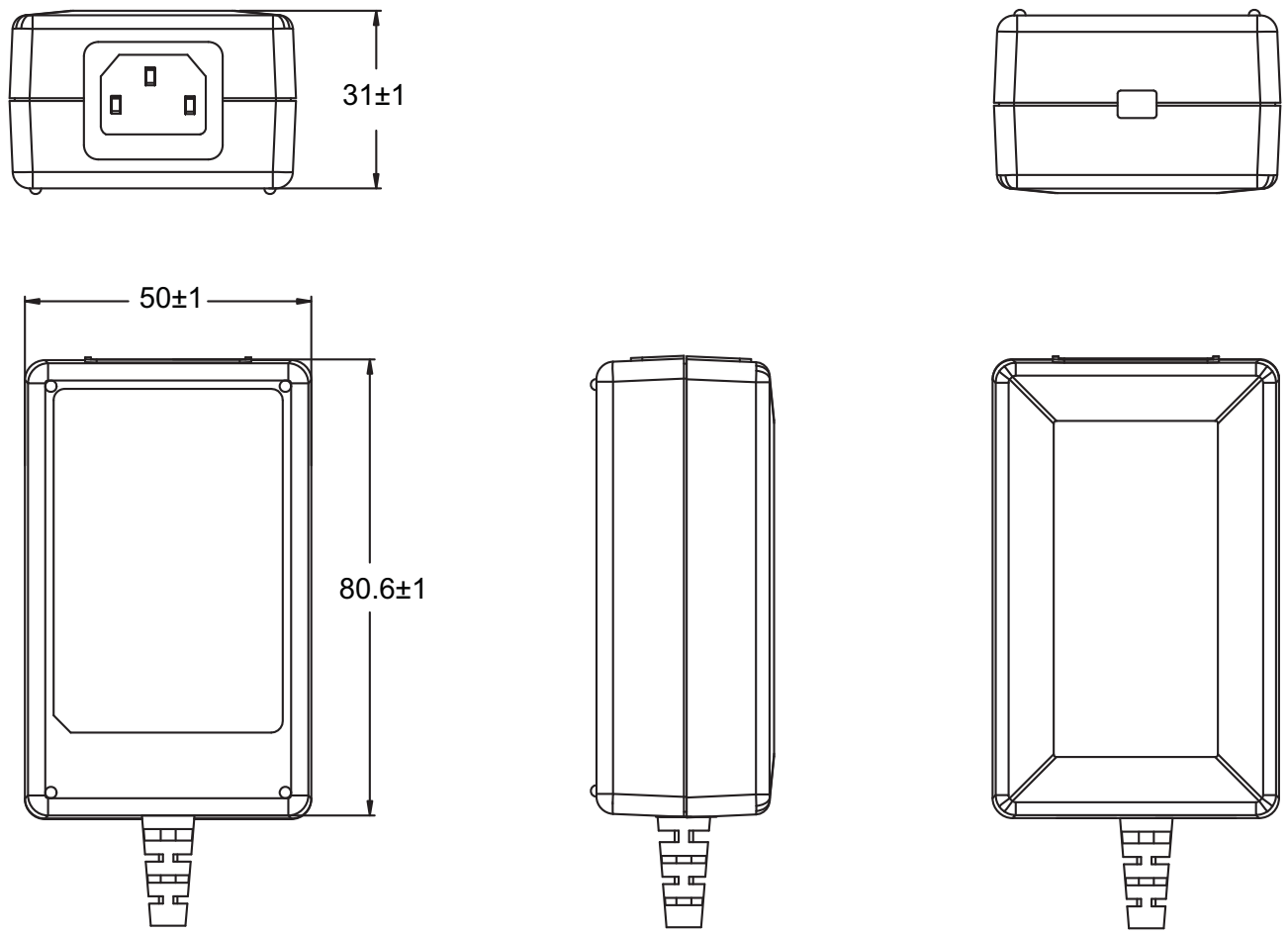
MECHANICAL

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[1]			115		g

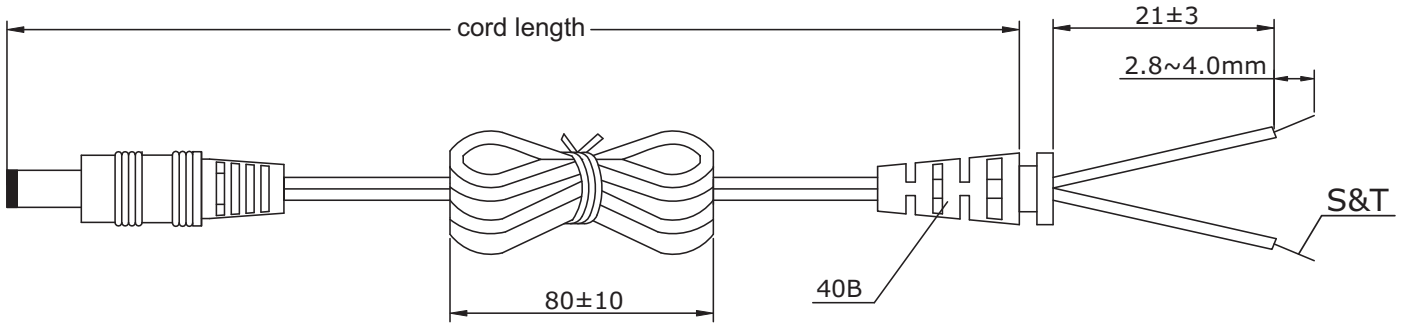
1. weight does not include AC Cord

MECHANICAL DRAWING

units: mm

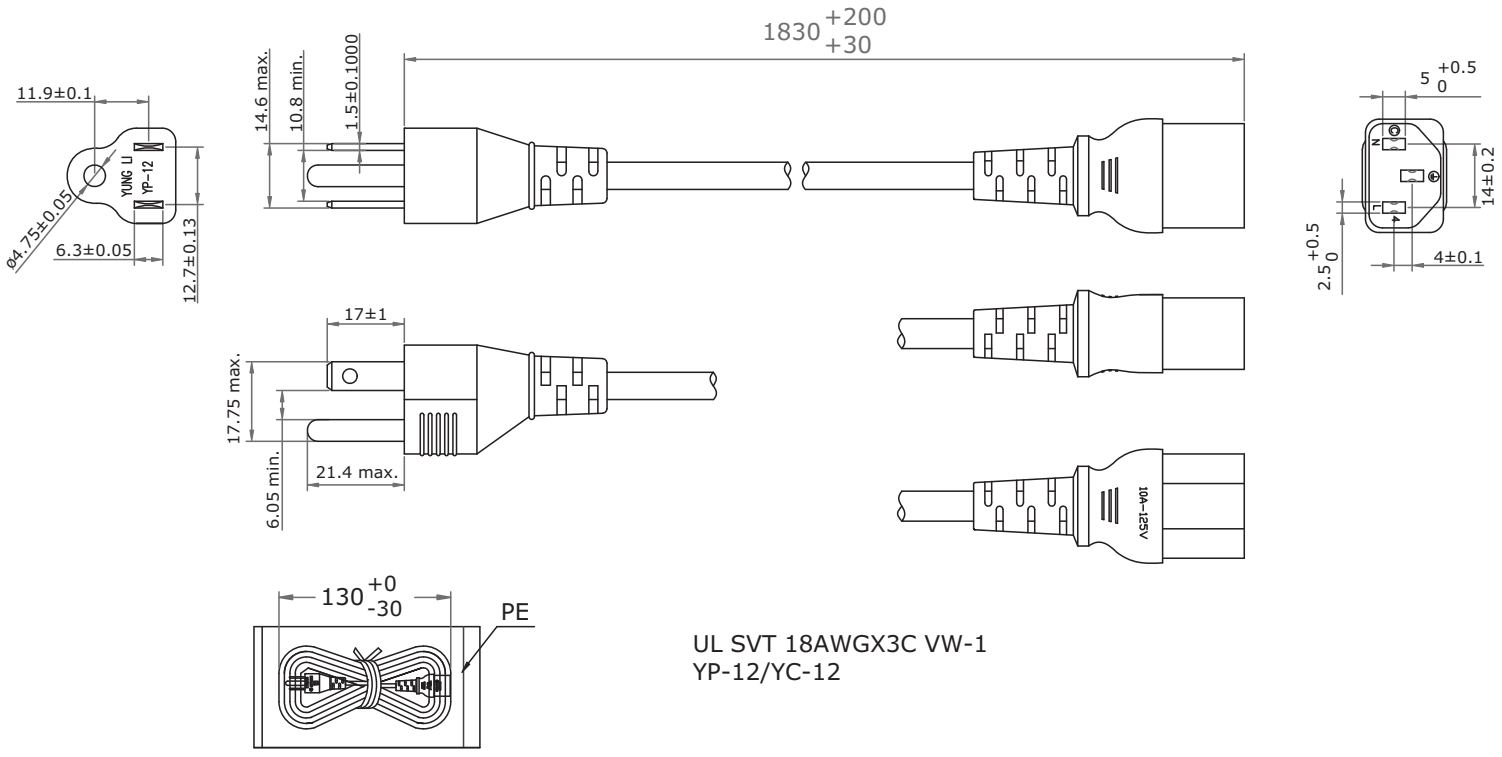


DC CORD



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

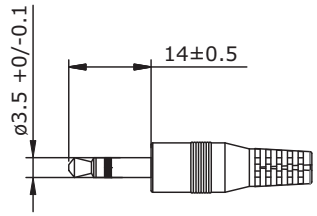
AC CORD



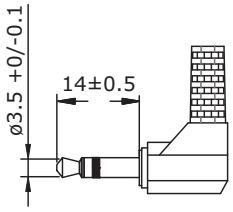
UL SVT 18AWGX3C VW-1
YP-12/YC-12

OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



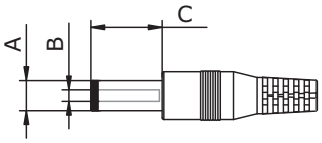
P1



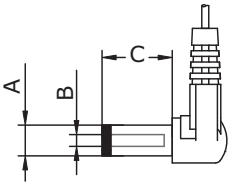
P1R

*Tip positive

Standard DC Plug



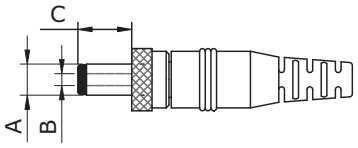
Standard PX



Right Angle PXR

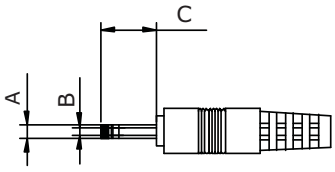
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

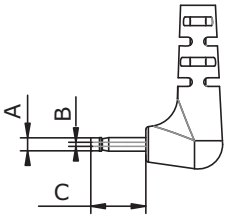


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

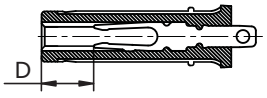


Standard PXX

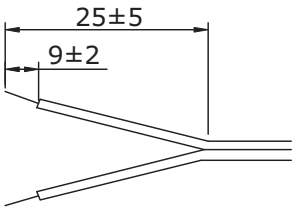


Right Angle PXXR

	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



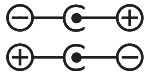
DC PLUG TYPE

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	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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