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

FEATURES

- 60 W power
- universal input (90~264 Vac)
- compact size
- single regulated output from 12~24 V
- over voltage and short circuit protections
- UL/cUL, Intertek and 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
ETSA120500U	12	5	60	200	V
ETSA190342U	19	3.42	60	240	V
ETSA240270U	24	2.7	60	240	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

ETSA120500U X - XX - SZ - CXX

- **ETSA120500U** — Base Number, example of 12 Vdc, 5 A
- **X** — Input Cable:
  "Blank" = No Cable
  C = North American input cable
  2 = European input cable
  3 = United Kingdom input cable
  4 = Australian input cable
  5 = China input cable
  6 = South Korea input cable
  7 = Brazil input cable
  8 = South Africa input cable
  9 = Japan input cable
- **XX** — DC Plug Type: see output plug options on page 7
- **SZ** — Factory Designation
- **CXX** — Reserved for Custom Configurations

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
inrush current	12 V output all other outputs			1.4 1.5	A A
leakage current	12 V output all other outputs			0.35 0.25	mA mA
no load power consumption	12 V output all other outputs			0.3 0.5	W W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation			±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	Vac
insulation resistance	input to output at 500 Vdc	100			MΩ
safety approvals	UL/cUL (UL 60950-1), EN 60950-1/IEC 60950-1, PSE				
EMI/EMC	FCC part 15, subpart b, class B; CE; CISPR 22, class B; ICES-003; ANSI C63.4; EN 61204-3; EN 55022; EN 55024; EN 61000-(2, 3); IEC 61000-4-(2, 3, 4, 5, 6, 8, 11)				
RoHS	2011/65/EU				

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	%

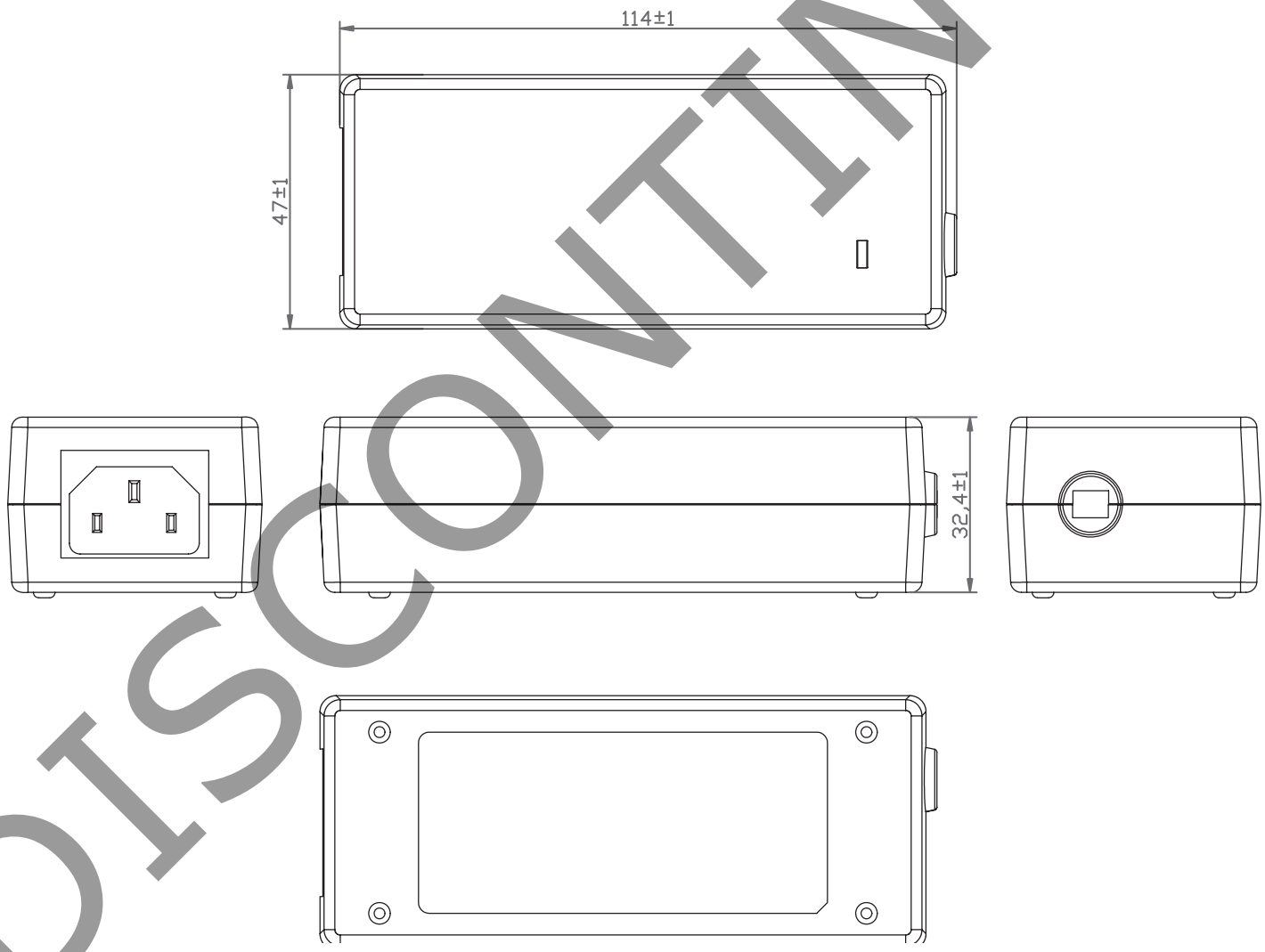
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	114 x 47 x 32.4 (4.488 x 1.850 x 1.276 inches)				mm
input plug	IEC320 / C14				
weight[1]			230		g

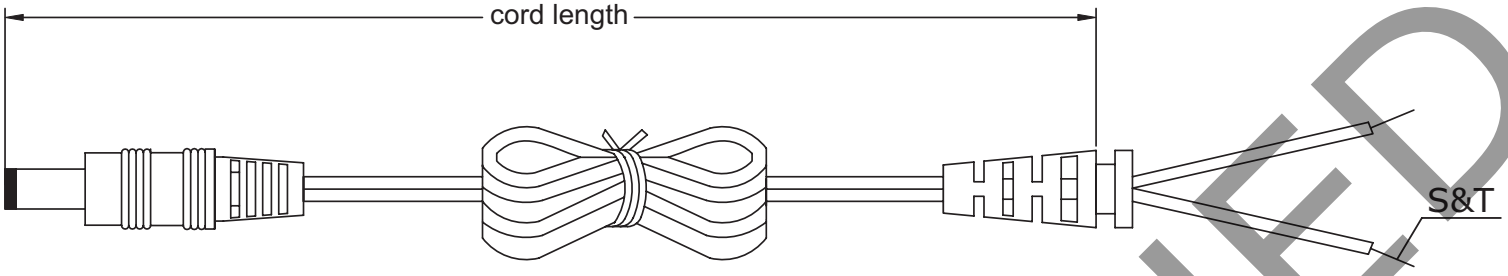
Notes: 1. weight does not include AC Cord

MECHANICAL DRAWING

units: mm
tolerance: ±1mm



DC CORD

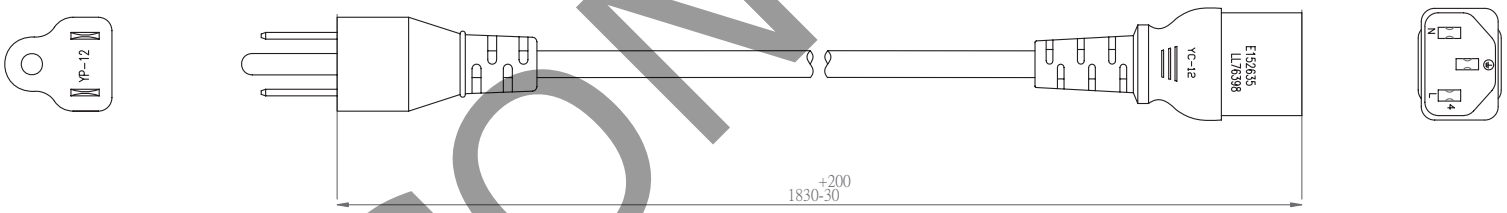


MODEL NO.	CABLE GAUGE	CORD LENGTH
ETSA120500U	16 AWG	1,000 mm ±100
ETSA190342U	18 AWG	1,530 mm ±100
ETSA240270U	18 AWG	1,530 mm ±100

AC CORD

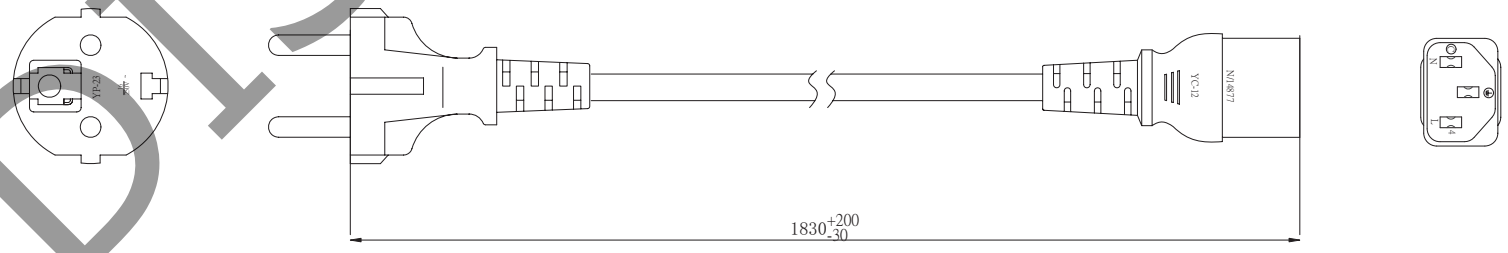
NORTH AMERICAN INPUT CABLE

units: mm



EUROPEAN INPUT CABLE

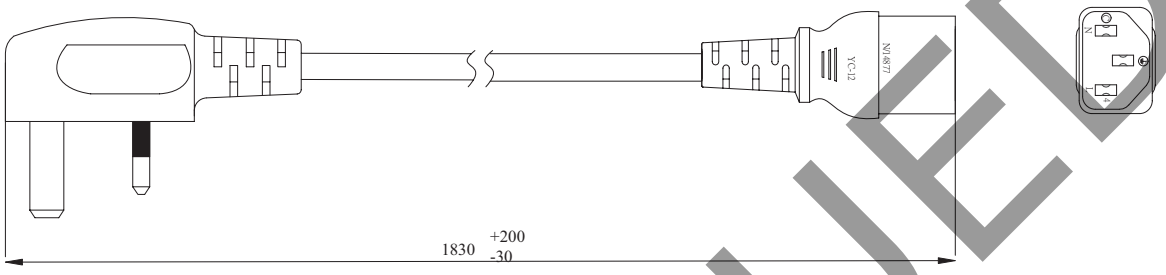
units: mm



AC CORD (CONTINUED)

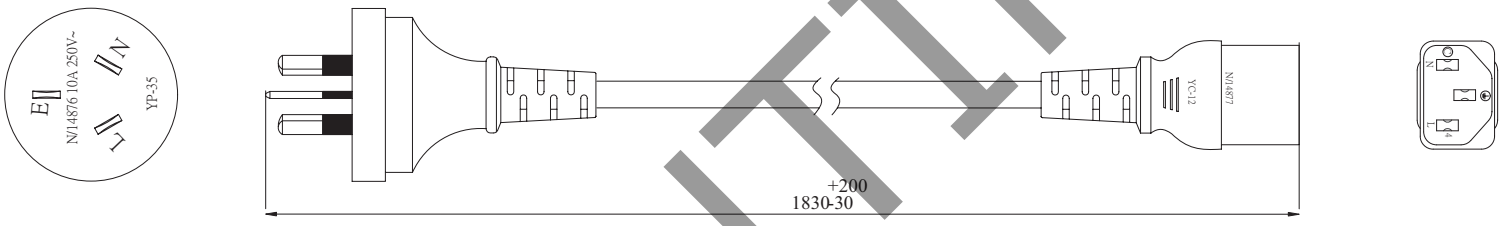
UNITED KINGDOM INPUT CABLE

units: mm



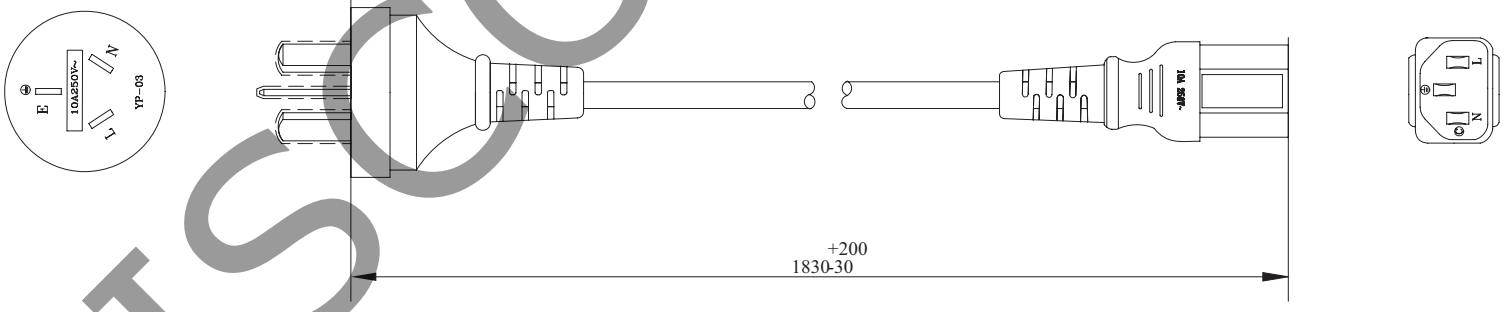
AUSTRALIAN INPUT CABLE

units: mm



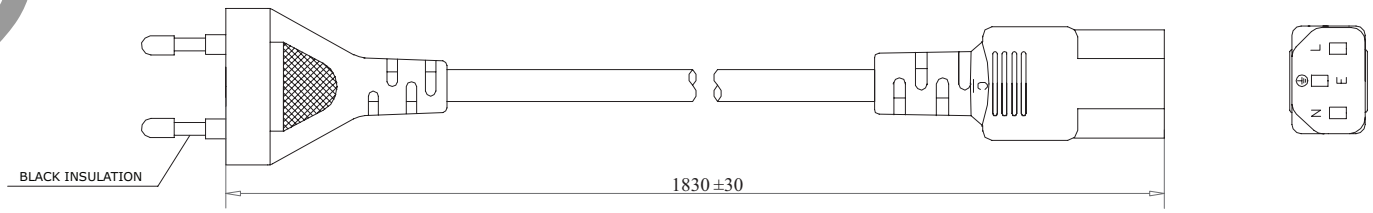
CHINA INPUT CABLE

units: mm



SOUTH KOREA INPUT CABLE

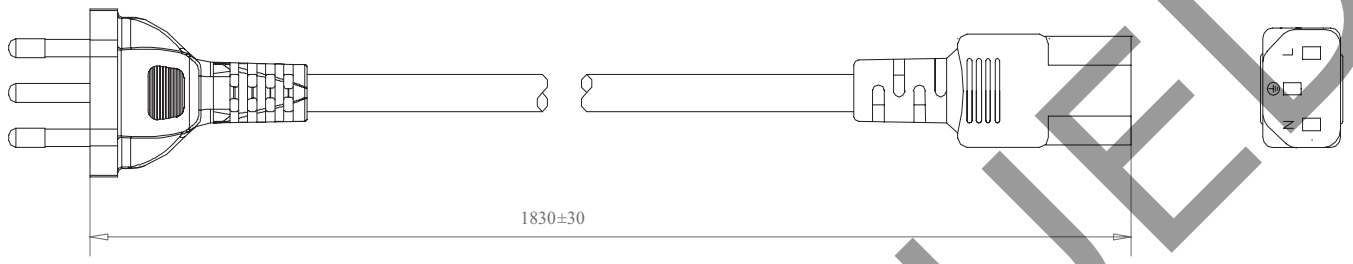
units: mm



AC CORD (CONTINUED)

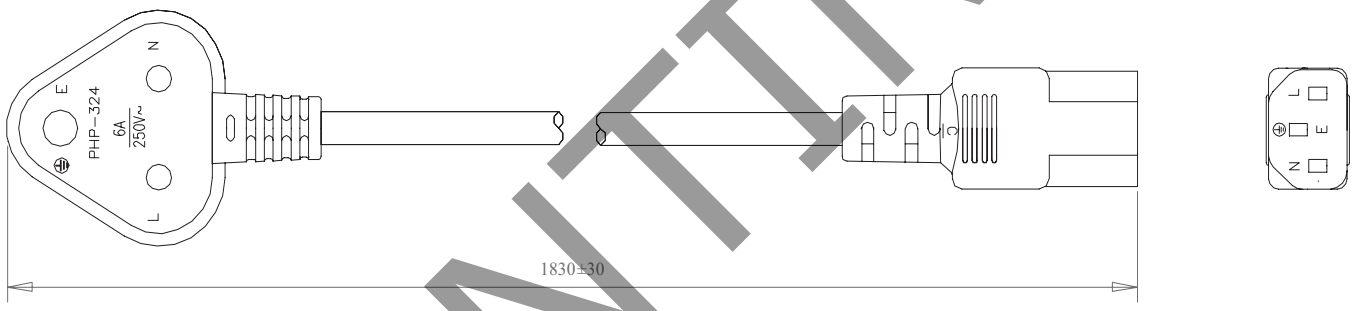
BRAZIL INPUT CABLE

units: mm



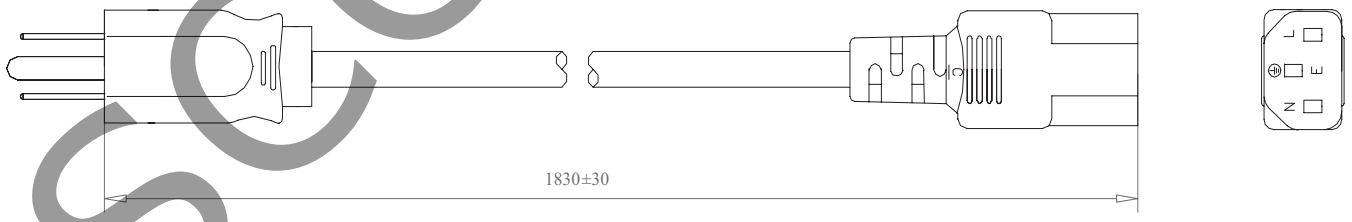
SOUTH AFRICA INPUT CABLE

units: mm



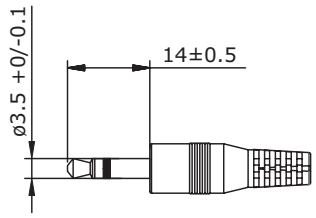
JAPAN INPUT CABLE

units: mm

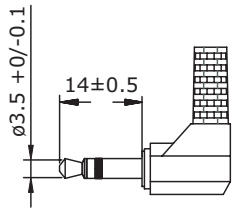


OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



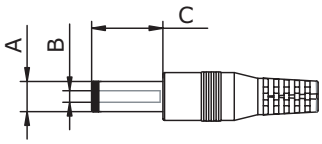
P1



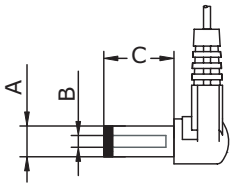
P1R

*Tip positive

Standard DC Plug



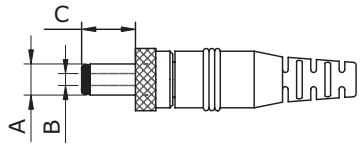
Standard PX



Right Angle PXR

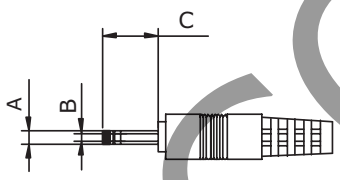
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

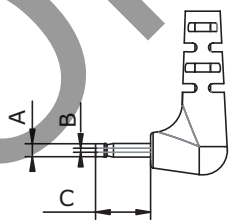


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

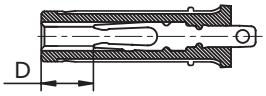


Standard PXX

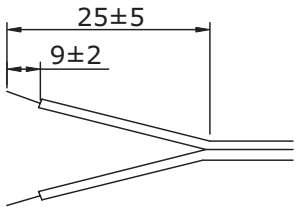


Right Angle PXXR

	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



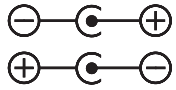
DC PLUG TYPE

PXX X X

Plug Type:
PXX = See above plug options
ST = Stripped and Tinned

Plug Angle:
"blank" = Straight
R = Right Angle

Plug Polarity:
P = Center Positive
N = Center Negative



*Contact CUI for additional plug options

REVISION HISTORY

rev.	description	date
1.0	initial release	12/05/2011
1.01	updated P7/P7R B dimension, V-Infinity branding removed, safety and EMI/EMC data updated	08/15/2012
1.02	updated DC Cord information	11/14/2012
1.03	updated series number	11/20/2012
1.04	added ac cord options	11/20/2014

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

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