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120 Watt Universal 3-Wire Input Adapter PSA120U Adapter Series meets EISA and CEC Requirements





#### Features EISA compliant\* Non-vented/Spill-proof Case • • Class B EMI • Applications Networking Industrial • • Peripherals Test and Measurement • Safety Approvals • cUL/UL60950-1 TUV EN60950-1 • • CE **Mechanical Characteristics** • Length: 174mm (6.85in) Height: 43mm (1.69in) •

• Width: 77mm (3.03in)

• Weight: 800g (28.22oz.)

Output Specifications

Model	DC Output	Load		Ripple (1)	Regulation		Efficiency
	Voltage	<b>Min.</b> (2)	Max.	P-P (max.)	Line	Load	Level
PSA120U-120	+12V	0A	10A	150mV	±5%		115VAC
PSA120U-240	+24V	0A	5.0A	300mV	±5%		115VAC
PSA120U-480	+48V	0A	2.5A	480mV	±5%		115VAC

\*The PSA120U series is EISA Level IV<sub>115VAC</sub> Compliant and MEPS Level III Compliant.

(1) Measured with using 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel.

(2) Dynamic load from 0.1A to full load.

Phihong reserves the right to make changes without further notice. Please consult Phihong USA and visit <u>www.phihong.com</u> for the most up-to-date specifications.

Version 1: 10-1-08

# **PSA120U Series Characteristics**

**INPUT: AC Input Voltage Rating** 100 to 240VAC

**AC Input Voltage Range** 90 to 264VAC

**AC Input Frequency** 47 to 63Hz

**Input Current** 2.5A (rms) Max. @ 115VAC 1.5A (rms) Max. @ 230VAC

Leakage Current 3.5mA Max. @ 254VAC 50Hz.

**Inrush Current (cold start @25°C Ambient)** Less than 65A at 120VAC Less than 130A at 240VAC

**No Load Power Saving** < 0.50W for 115VAC < 0.75W for 230VAC

**OUTPUT: Efficiency** 85% minimum average efficiency

Hold-up Time 10mS min. at 120VAC and max. load

## **Over-Voltage Protection**

The output is protected from over voltage fault at all conditions including open-loop

**Over-Power Protection** Auto restart

## **Short Circuit Protection**

The output will withstand a short circuit across the outputs with auto-restart function. Output can be shorted without damage.

# **ENVIRONMENTAL:**

TemperatureOperation0 to +40°CStorage-20 to +70°C

**Relative Humidity (Non-condensing)** Operation 20 to 80%

Storage 10 to 90%

# Emissions

FCC Class B EN55022 Class B

**Harmonics and Flicker** 

IEC61000-3-2 Class D IEC61000-3-3

# **Power Factor Correction**

 $\geq$  0.95 at 100VAC full load  $\geq$  0.90 at 240VAC full load

# Immunity

EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11

## **Dielectric Withstand (Hi-pot) Test**

Primary to Secondary: 3000VAC for 1 minute, 10mA

#### **DC Output Connector**

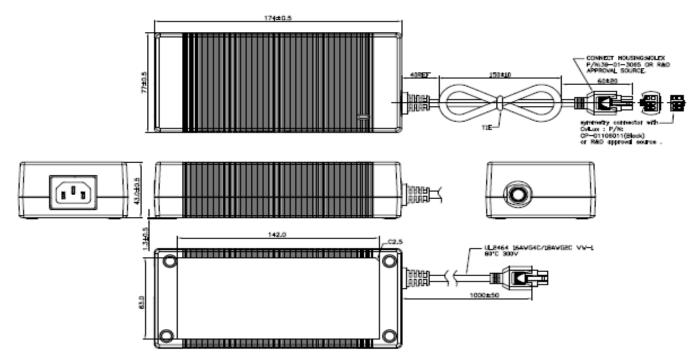
PSA120U-120-R: Molex PN: 39-01-3065

PSA120U-240-R & PSA120U-480-R: 2.5mm x 5.5mm Center Positive barrel connector

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# Dimension Diagram Unit: mm

PSA120U-120-R



PSA120U-240-R & PSA120U-480-R

