



12W Interchangeable AC Clip Adapter

PSAC12R-050-R

● DoE 6 & CoC V5 T1 ● Interchangeable AC Clip ● Cable ● Black



The 12W interchangeable AC clip adaptor series is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong Technology. Phihong 12W interchangeable AC clip adaptor series are designed to work with most 5V powered devices and conforms to most of the industry standards and meets DoE level VI and CoC V5 tier 2 energy efficiency requirements, we ensure our products meet or exceed all the industry performance and safety requirements.

Features :

Efficiency	DoE Level VI & CoC V5 Tier 1 (79.94% min)
No Load Input Power	$\leq 75\text{mW}$ @ 115Vac/60Hz, 230Vac/50Hz
Average Efficiency	79.94% Min @ 115Vac/60Hz, 230Vac/50Hz
Eff @ 10% load	67.89% Min @ 230Vac/50Hz
Protection	SCP, OVP (7.5V), OCP (3A)
Hold-up Time	$>8\text{mS}$ @ 120Vac, max load
Rise Time	$<100\text{mS}$ @ 120Vac, max load
Isolation	Primary to Secondary 3000Vac, 10mA for 1min.
Insulation	Primary to Secondary $>7\text{M ohm}$ 500Vdc
DC Output Cable	1500 \pm 50mm, UL-2468 AWG#20
DC Output Connector	5.5x2.1x10mm, center positive, straight barrel
Dimension	71.5*50*33.5 (mm)
Weight	112 \pm 5 (g)

Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	500mA (RMS) @120Vac max load
	250mA (RMS) @230Vac max load
Output Voltage	5V
Output Voltage Tolerance	$\pm 5\%$
Maximum Output Power	12W continuous
Output Current	2.4A
Leakage Current	$<0.25\text{mA}$
Inrush Current	$<30\text{A}$ @ 120Vac/60Hz, 25°C , cold start
	$<60\text{A}$ @ 230Vac/50Hz, 25°C , cold start

Environmental Specifications :

Operating Temperature	0°C ~ +40°C
Storage Temperature	-40°C ~ +85°C
Operating Humidity	50% ~ 90% RH
Storage Humidity	50% ~ 90% RH
E-Cap Lifetime	$>4\text{yrs}$ @ 80% load, 35°C ambient

Safety and Compliance :

UL/cUL60950-1, IEC60950-1, CE Mark, RCM
EMC Emission: EN55022 class B, EN61000-3-2, -3 class A
ESD : Air $\pm 15\text{KV}$, Contact: $\pm 8\text{KV}$ EN61000-4-2, Criteria A
Surge: $\pm 2\text{kV}$ (L-L), EN61000-4-5, Criteria A
RF: EN61000-4-3, Criteria A
EFT: EN61000-4-4, Criteria A
CD: EN61000-4-6, Criteria A
Voltage Dip: EN61000-4-11, Criteria A, B

Note:

- Measurements shall be made with an oscilloscope with 20MHz bandwidth. Output shall be bypassed at a connector with a 0.1uF ceramic capacitor and a 10uF low ESR electrolytic capacitor.
- Efficiency: Measure efficiency at 100%, 75%, 50%, 25% load after burn-in 30 minutes at 100% load, then compute the arithmetic average of these 4 values.
- Interchangeable AC clip: US, Brazil, CN, EU, Korea, UK, India, Argentina, Australia, IEC320 C8



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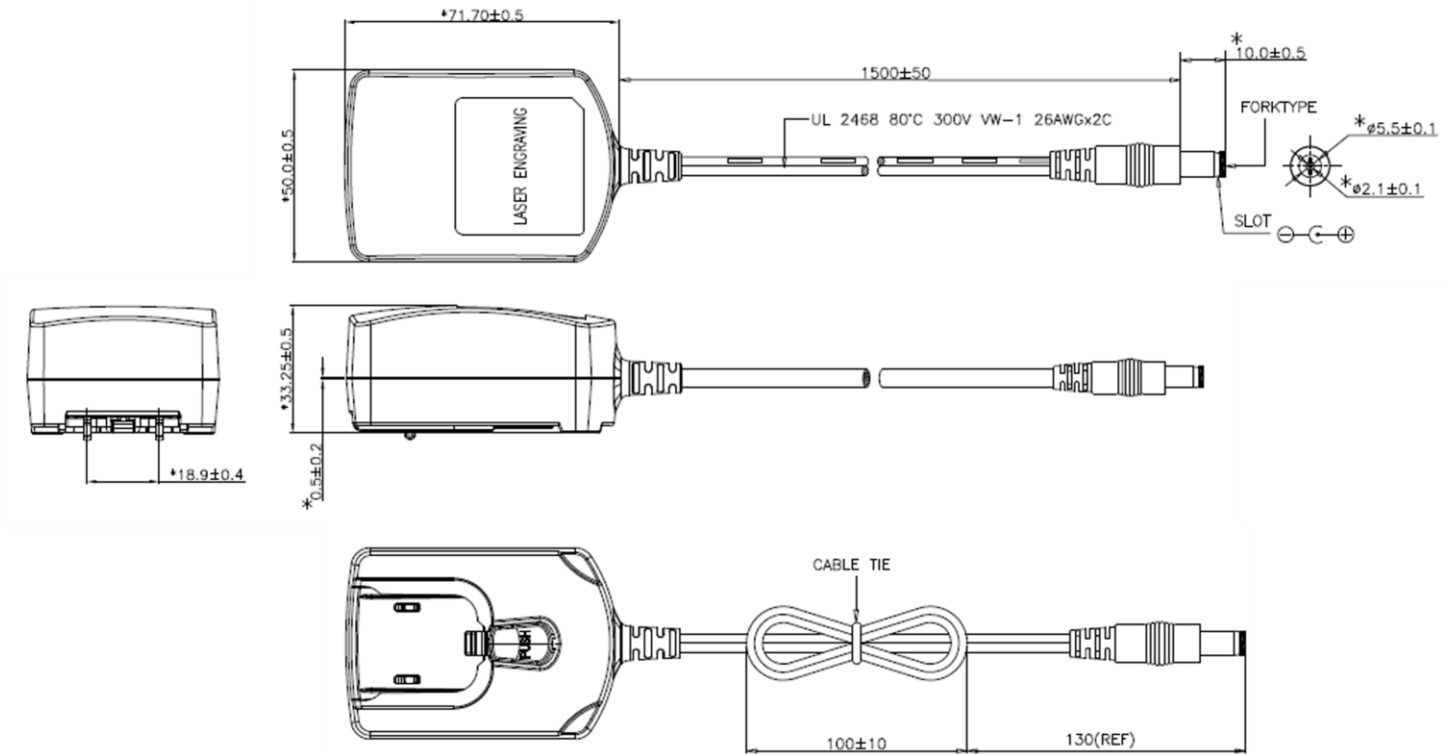
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Dimensions: mm



Model Selections

Model Number	Output Voltage (Vdc)	Output Current (A ±5%)	Max. Output Power (W)	Output Ripple P-P (max)
PSAC12R-050-R	5	2.4	12	100mV

AC Clip Selections (Black color)

	US	Brazil	China	Europe	Korea	UK	India	Argentina	Australia	IEC320 C8
Model Name	RPA	RPB	RPC	RPE	RPH	RPI	RPK	RPN	RPS	RPX

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