



12W Interchangeable AC Clip Adapter

PSAC12R-120-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 12V/15V/24V/48V powered devices and conforms to most of the industry standards and meets DoE level VI and CoC V5 tier 1 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 (83.26% min)
No Load Input Power	$\leq 75\text{mW}$ @ 115Vac/60Hz, 230Vac/50Hz
Average Efficiency	83.26% Min @ 115Vac/60Hz, 230Vac/50Hz
Eff @ 10% load	73.26% Min @ 230Vac/50Hz
Protection	SCP, OVP (16V), OCP (1.5A)
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	12V
Output Voltage Tolerance	$\pm 5\%$
Maximum Output Power	12W continuous
Output Current	1A
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
MTBF (MIL-HDBK-217F)	330Khrs min.

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



PHIHONG TECHNOLOGY CO., LTD.

+886-3-3277288
www.phihong.com.tw
phsales@phihong.com.tw



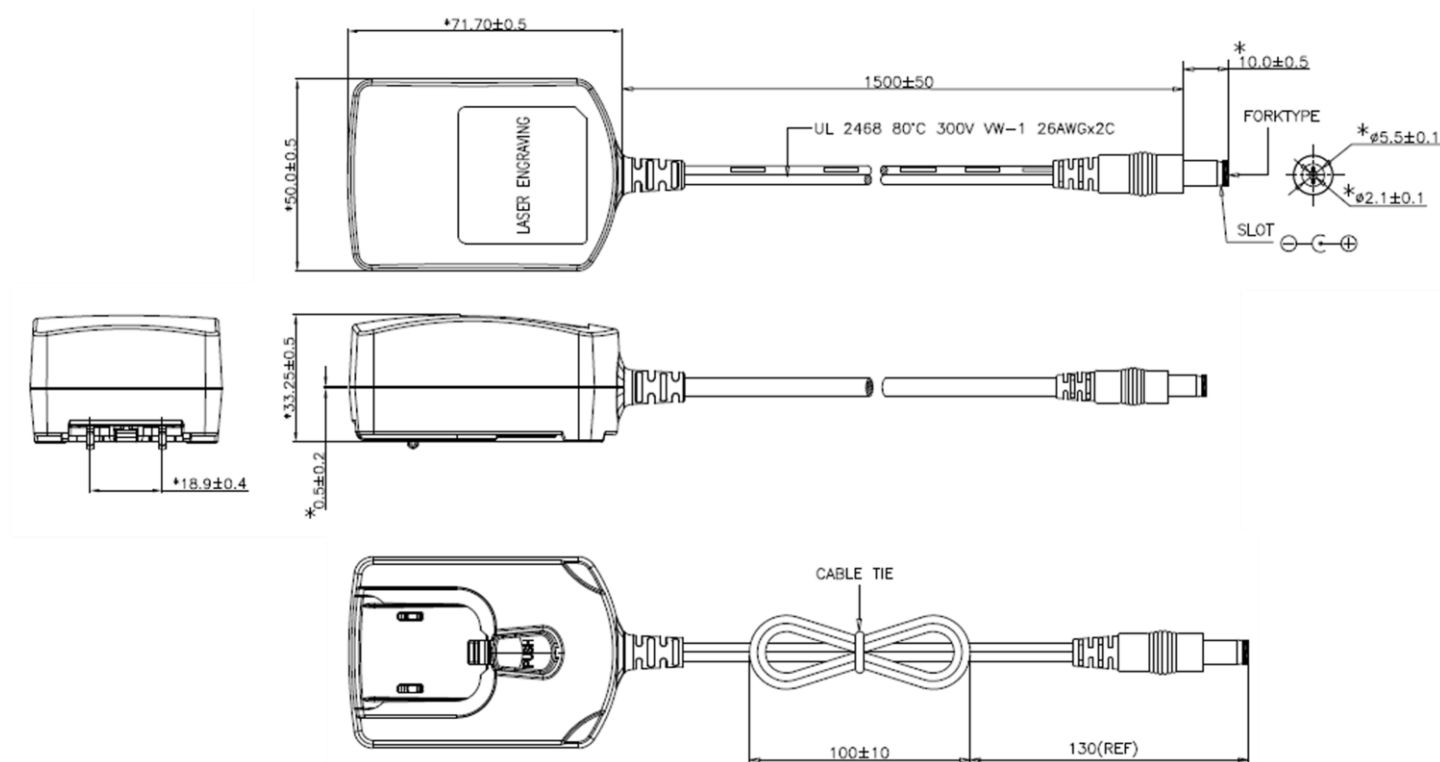
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Dimensions: mm



Model Selections

Model Number	Output Voltage (Vdc)	Output Current (A ±5%)	Max. Output Power (W)	Output Ripple P-P (max)
PSAC12R-120-R	12	1	12	120mV
PSAC12R-150-R	15	0.8	12	150mV
PSAC12R-240-R	24	0.5	12	240mV
PSAC12R-480-R	48	0.25	12	480mV

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

Headquarters

No. 568, Fusing 3rd Rd.,
Gueishan District, Taoyuan City,
333, Taiwan, R.O.C.
Tel: +886-3-3277288
Fax: +886-3-3185999
phsales@phihong.com.tw
www.phihong.com.tw

Phihong USA

47800 Fremont Blvd.
Fremont, CA 94538, USA
Tel: +1-510-445-0100
Fax: +1-510-445-1678
usasales@phihongusa.com
www.phihong.com

Phihong China

Science & Technology Rd.,
Silver Lake Industrial Area
Qingxi Town, Dong Guan City,
Guang Dong (523648), China
Tel: +86-769-87319026
Fax: +86-769-87317106
phsales@phihong.com.tw

Phihong Japan

〒135-0016 東京都江東区東陽
3丁目23番24号 VORT 東陽町
ビル5階
TEL: +81-3-5677-1678
FAX: +81-3-5634-5255
phsales@phihong.com.tw
www.phihong.co.jp

Phihong Europe

Wattstraat 50, 2171 TR
Sassenheim, The Netherlands
Tel: +31-(0)-252-225910
Fax: +31-(0)-252-218764
sales@phihong.eu.com
www.phihong-lighting.com



PHIHONG TECHNOLOGY CO., LTD.

- +886-3-3277288
- www.phihong.com.tw
- phsales@phihong.com.tw