



# 12W DoE VI Fixed Pin Adapter

PSAC12A-050-R / PSAC12A-120-R

● 5V/12V ● DoE 6 & CoC V5 T2 ● Fixed Pin ● Wire ● Black



The 12W DoE 6 fixed pin adaptor series is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong Technology. Phihong 12W value adaptor series are designed to work with most 5V/12V powered devices and conforms to most of the industry standards and meets DoE level 6 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 2 (79.94% min)
No Load Input Power	≤75mW @ 115/230Vac
Average Efficiency	79.94% Min @ 115Vac/60Hz, 230Vac/50Hz
Eff @ 10% load	67.89% Min @ 115Vac/60Hz, 230Vac/50Hz
Protection	SCP, OVP, OCP
Hold-up Time	>8mS @ 120Vac, max load
Rise Time	<100mS @ 120Vac, max load
Isolation	Primary to Secondary 3000Vac, 10mA for 1min.
Insulation	Primary to Secondary >7M ohm 500Vdc
DC Output Cable	1500±50mm, UL-2468 AWG#20
DC Output Connector	5.5x2.1x10mm, center positive, straight barrel
Dimension	71.5*50*31.2 (mm)
Weight	118 (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,
Maximum Output Power	12W continuous
Output Current	2.4A
Output Ripple & Noise	100mV (pk-pk) for 5V output
	120mV (pk-pk) for 12V output
Line Regulation	±5%
Leakage Current	<0.25mA
Inrush Current	<30A @ 120Vac/60Hz, 25°C , cold start
	<60A @ 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	>4yrs @ 80% load, 35°C ambient

## Safety and Compliance :

UL/cUL60950-1, IEC60950-1
EMC Emission: EN55022 class B, EN61000-3-2, -3 class A
ESD : Air ±15KV, Contact: ±8KV E61000-4-2, Criteria A
Surge: ±2kV (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.

\*X=A A=USA



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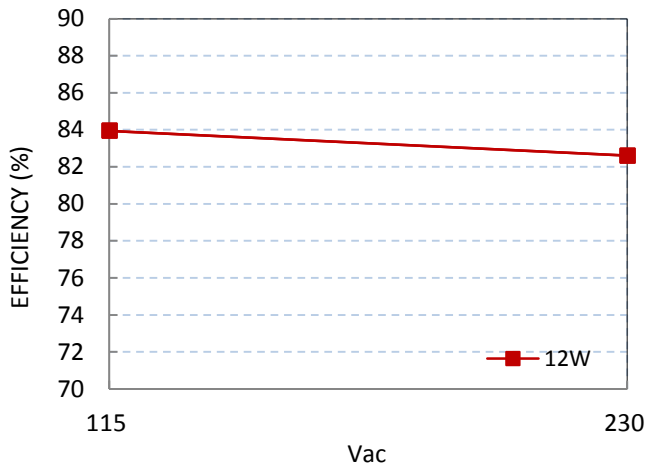
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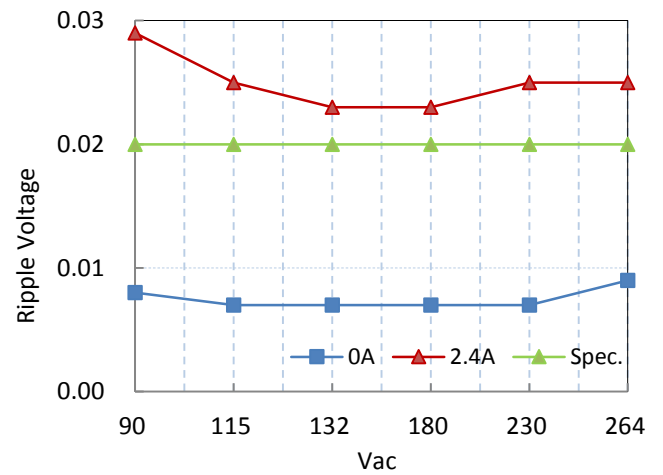
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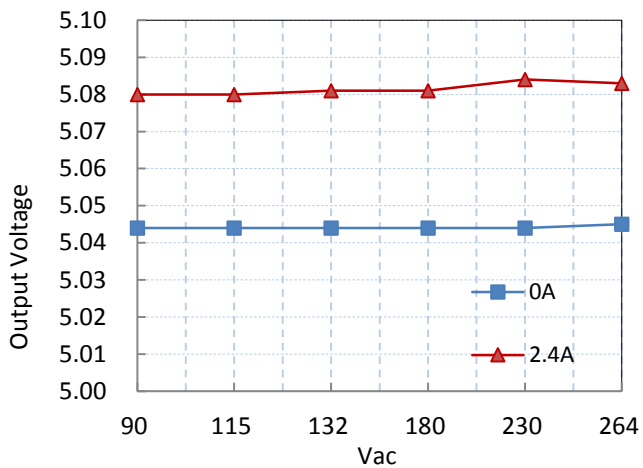
## Efficiency



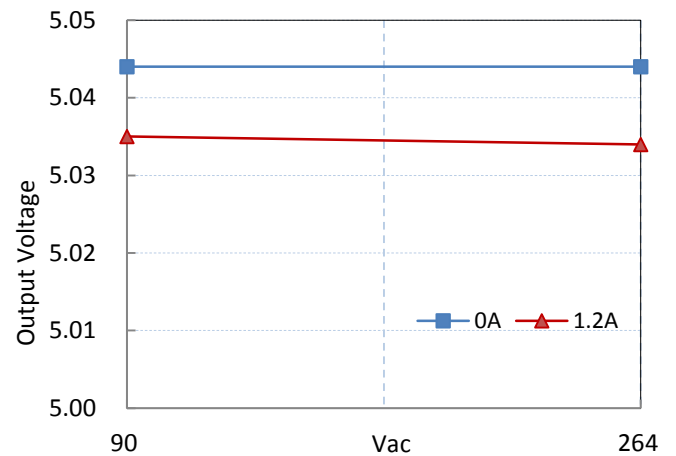
## Ripple Noise (5V)



## Line Regulation (5V)



## Load Regulation (5V)





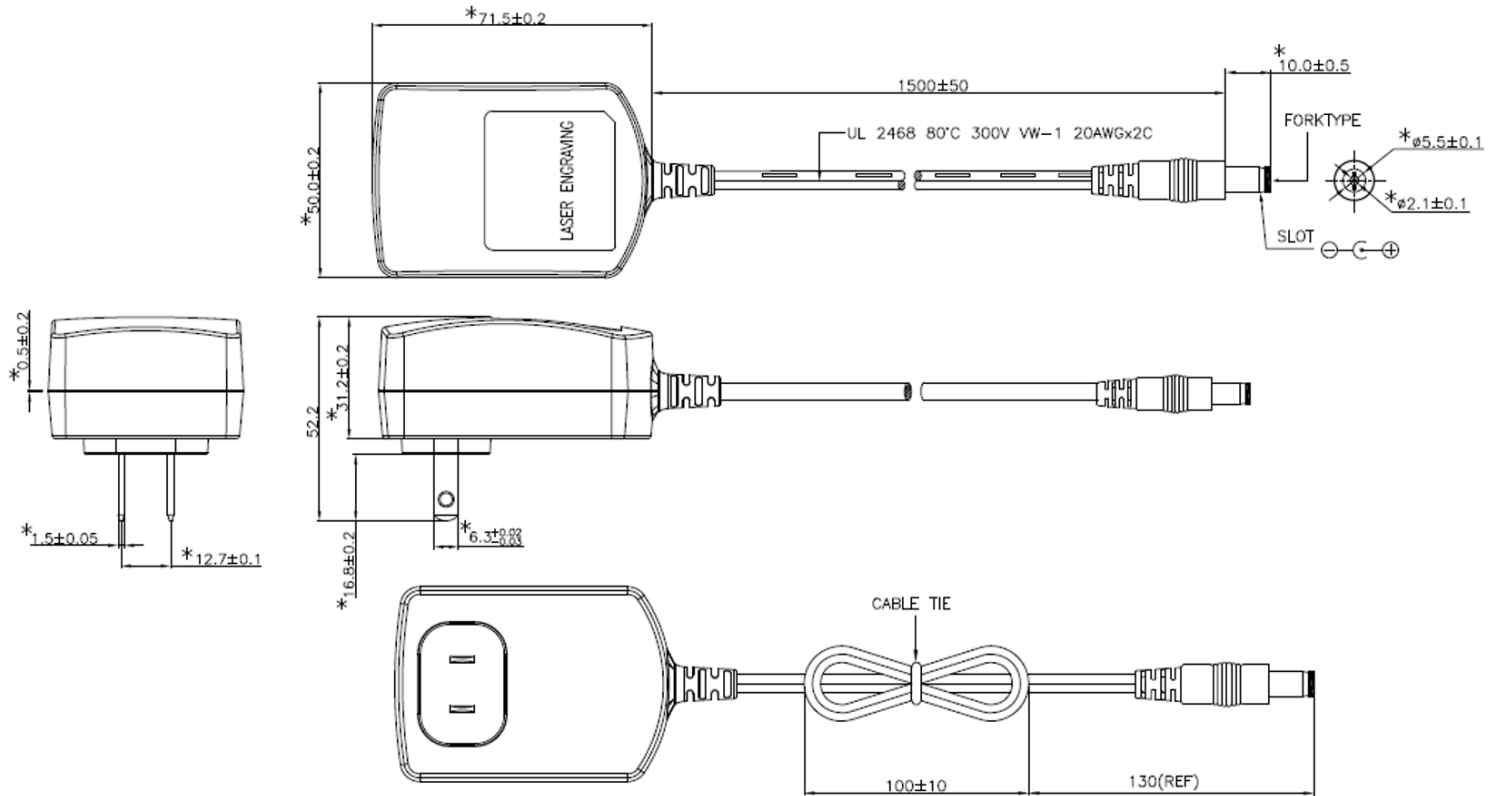
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Dimensions: mm



Model Selections				
Model Number	Plug Type	Output Current ( A ±5% )	Output Voltage ( Vdc)	Max. Output Power (W)
PSAC12A-050-R	US	2.4	5	12
PSAC12A-120-R	US	1	12	12

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