



# 12V/24W DoE VI Fixed Pin Adapter

PSAC24A-120L6-R

● 12V/2A ● DoE VI & CoC V5 T2 ● Fixed Pin ● Wire ● Black



The 12V/2A adaptor is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong Technology. Phihong 12V/2A value adaptor is designed to work with most 12V powered networking communication devices, such as Router, Switch, Set-Top Box (STB) and other 12V powered devices. Our 12V value adaptor series 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 (86.2%)
Power Saving	<0.075W @ no load, 115Vac & 230Vac
Protection	OVP (20V), OCP (4A), SCP
Turn-On Delay Time	<3 sec at min/max AC power on
Hold-up Time	>10mS@max load, 115Vac/60Hz & 230Vac/50Hz
Rise Time	<100mS @ max load, 120Vac/60Hz
Fall Time	<50mS @ max load, 120Vac/60Hz
Dynamic Response	±10% max, @ 90~264Vac, 25°C
	Rise rate = 0.5A/us, Fall rate = 0.5A/us
	(Load transient: 20% → 80% → 20%)
	T <sub>high</sub> = 1mS, T <sub>low</sub> = 1mS
Isolation	Primary to Secondary 3000Vac, 10mA for 1min.
Insulation	Primary to Secondary >10MΩ 500Vdc
Dimension	US : 83.5*53.5*35 (mm)

## Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	0.6A (RMS) max @ 100Vac
Output Voltage	12V,
Output Current	2A
Maximum Output Power	24W continuous
Output Ripple & Noise	240mV (pk-pk) @25°C and 115 & 230Vac
Line Regulation	±5%
Leakage Current	<0.25mA max @ 100Vac & 240Vac
Inrush Current	<40A max @ 115Vac/60Hz, 25°C, Max load
	<80A max @ 230Vac/50Hz, 25°C, Max load
Capacitive Load	3300uF @ Von=2V (CC mode), 100~240Vac

## Environmental Specifications :

Operating Temperature	0°C ~ +40°C
Storage Temperature	-20°C ~ +70°C
Humidity	0% ~ 90%
E Cap Life	10,000 Hrs. min @ 100Vac, 80% load, 40°C
MTBF	400K Hrs min. @100Vac, Full load, 40°C
	(Telcordia SR-332, issue 2)

## Safety and Compliance :

UL/cUL 60950-1 approved
EMI: EN55022 & CISPR 22 class B, FCC class B
ESD : Air ±15KV, Contact: ±8KV E61000-4-2, Criteria B
Surge: ±1kV (L-L), ±2kV (L-G), EN61000-4-5, Criteria B
RS: EN61000-4-3, Criteria A
EFT/B: EN61000-4-4, Criteria B
CS: EN61000-4-6, Criteria A
PFMF: EN61000-4-8, Criteria A
Voltage Dip: EN61000-4-11, Criteria B, C

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, C, E, K, S A=USA C=China E=EU K=UK S=AU



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