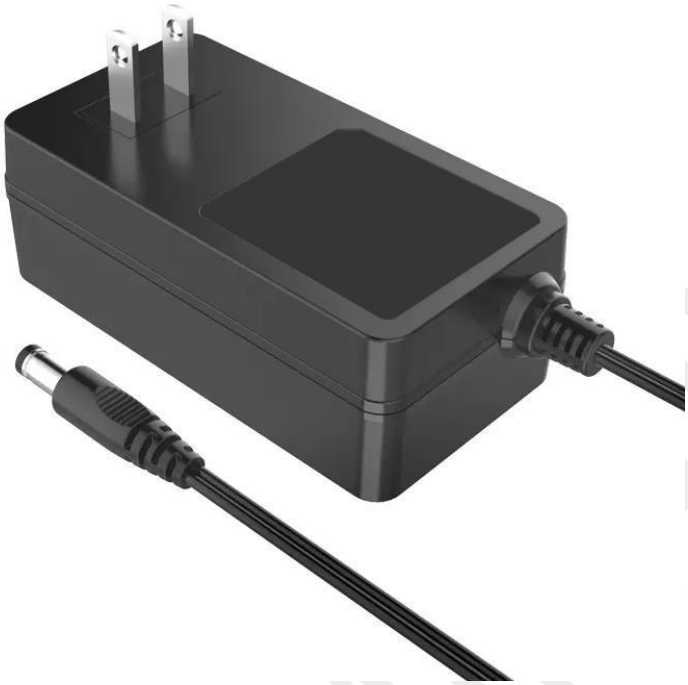
PHIHONG USA CORP

PYA36A Series

36W Fixed Blade Wall Mount Adapters



DOE VII READY

VI

Features

- US Wall Plug Fixed Type
- US DoE Level VI Efficiency Compliance
- Load Regulation: +/-5%
- Over-Voltage, Over-Current and Short Circuit Protection

Applications

- Smart Home Devices
- Telecommunication
- Electronic Devices
- Office Equipment
- Audio Devices

Description

Phihong PYA36A Series 36-watt fixed blade wall adapters are compact and reliable power solutions designed to meet the needs of various electronic devices. With their fixed blade design, these adapters plug directly into a standard wall outlet without the need for a detachable power cord. The adapters are efficient and minimizes power consumption, meeting Efficiency Level VI requirements as well as Level VII limits proposed by the US Department of Energy in 2023.

Phihong, a reputable manufacturer known for its high-quality power solutions, has cULus certifications for the adapters and has integrated safeguards such as over-voltage protection, over-current protection, and short-circuit protection into the adapters to help prevent damage to the powered device, providing peace of mind to users.

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Specifications[1]

Model		PYA36A050400	PYA36A120300	PYA36A240150
Output	DC Output Voltage	5V	12V	24V
	Max Current	4.0A	3.0A	1.5A
	Output Power	36.0W		
	Regulation	± 1% Line / ± 5% Load		
	Ripple & Noise P-P(max)[2]	120mV	180mV	
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	AC Input Current	0.6A max. @ input 100-240VAC, full load		
	AC Inrush Current	40A max. @ input 240VAC		
	No Load Power Consumption	≤0.075W		
	Average Efficiency[3]	≥83.684%	≥88.303%	
	Leakage Current	0.25mA max. at 264VAC/50Hz max., no load		
Protection	Over-Voltage	10V max	24V max	48V max
	Short Circuit	Auto-recovery and no damage.		
	Over-Current	8.0A max auto-recovery	6.0A max auto-recovery	3.0A max auto-recovery
Environmental	Operating Temperature	0ºC to +40ºC		
	Non-Operating Temperature	-20ºC to +70ºC		
	Operating Humidity	10% to 95% RH max		
Safety Approvals and EMC *(Pending)*	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC, 10mA max. 1 min.		
	Insulation Resistance	Primary to Secondary: Min. 50M OHM at 500 VDC		
	Standards	cULus 62368-1		
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B) Conducted & Radiated		
	Harmonic Current Emissions	IEC 61000-3-2		
	Voltage Fluctuations & Flicker	IEC 61000-3-3		
	Immunity	EN 55035/CISPR 35: IEC 61000-4-2 (+/-8kV air, +/- 4kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (2KV L-L, 1KV L-FG), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimensions (L x W x H)	92.2mm (3.62in) x 47.8mm (1.88in) x 31.9mm (1.25in)		
	Cable Length & Gauge	1500mm 18AWG	1500mm 20AWG	1500mm 22AWG
	DC Output Connector	2.1mm (+) x 5.5mm (-) x 10mm		
MTBF	Telcordia (SR-322 Issue 3)	>1,000,000 Hours min. at 264VAC/50Hz, max. load, 25°C		
Notes	1. The specifications defined are at ambient temperature of 25C, unless otherwise specified. 2. 20MHz bandwidth frequency oscilloscope, add a 0.1µF multilayer Cap. and Low ESR Electrolytic Cap. (10µF) at output connector terminals (nominal line voltage, full load). 3. Efficiency is measured after 30 minutes burn-in.			

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Outline Drawing