PHIHONG USA CORP

PYA24A Series

24W 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

Description

Phihong PYA24A series 24-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 adapter are efficient and minimize energy consumption, meeting Level VI efficiency limits as well as Level VII efficiency limits proposed by the US Department of Energy in 2023.

Phihong, a reputable manufacturer known for its high-quality power solutions, has cULus 62368- 1 approvals for these adapters and has integrated safety features 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		PYA24A120200	PYA24A240100
Output	DC Output Voltage	12V	24V
	Max Current	2.0A	1.0A
	Output Power	24.0W	
	Regulation	± 1% Line / ± 5% Load	
	Ripple & Noise P-P(max)[2]	150mV	
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 at 115VAC Input	≤0.075W	
	115VAC Average Efficiency[3]	≥86.804%	
	Leakage Current	0.25mA max. at 264VAC/50Hz max., no load	
Protection	Over-Voltage	24V max	48V max
	Short Circuit	Auto-recovery and no damage.	
	Over-Current	4.0A max, auto-recovery	2.0A 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)	71.2mm (2.80in) x 43.2mm (1.70in) x 29mm (1.14in)	
	Cable Length & Gauge	1500mm 22AWG	
	DC Output Connector	2.1mm (+) x 5.5mm (-) x 10mm	
MTBF	Telcordia (SR-332 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