

PYA12A Series



12W Fixed Blade Wall Mount Adapters



Key Product Features

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

Applications

- Set-top Devices
- Telecommunication
- Electronic Devices
- Office Equipment
- Peripheral Devices

Description

Phihong PYA12A 12-watt series 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 compact adapter is efficient and minimizes energy consumption, meeting Level VI efficiency limits 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 certified the adapters to cULus 62368-1 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 powered devices, providing a peace of mind to users.

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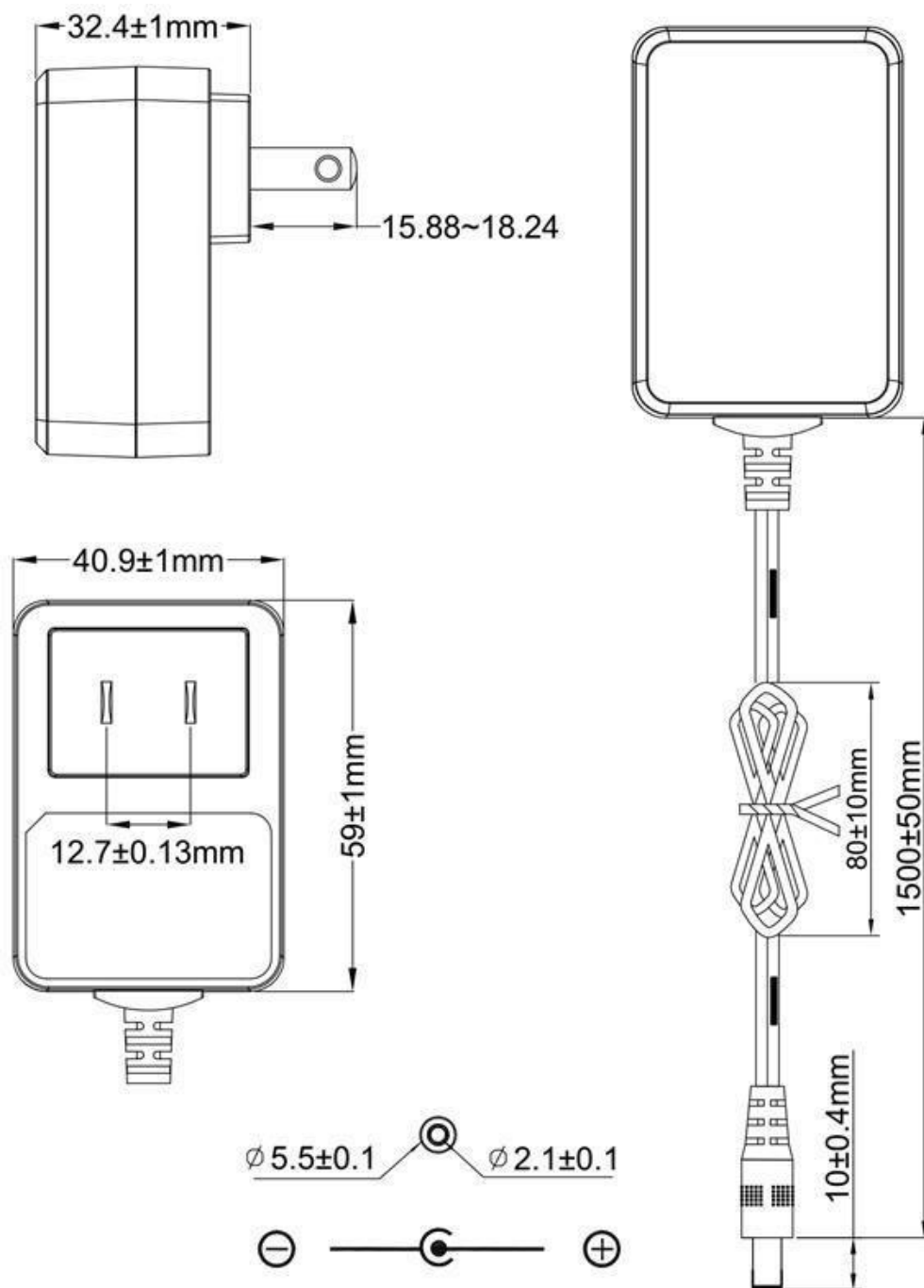


Specifications¹

Model		PYA12A050240	PYA12A090130	PYA12A120100
Output	DC Output Voltage	5.0V	9.0V	12.0V
	Max Current	2.4A	1.30A	1.0A
	Output Power	12.0W	11.7W	12.0W
	Regulation	±1% Line / ±5% Load	±1% Line / ±5% Load	±1% Line / ±5% Load
	Ripple & Noise P-P(max) ²	100mV	120mV	120mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.4A max. @ input 100-240VAC, full load		
	Inrush Current	42A max. @ input 240VAC (Cold start at ambient 25°C, full load)		
	Load Power Consumption at 115VAC Input	≤ 0.075W		
	115VAC Average Efficiency ³	≥ 80.3%	≥ 83.1%	≥ 83.3%
	Leakage Current	0.25mA max		
Protection	Over-Voltage	15V max	27V max	27V max
	Short Circuit	Auto-recovery and no damage.		
	Over-Current	4.8A max Auto-restart	2.66A max Auto-restart	2.0A max Auto-restart
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-20°C to +70°C		
	Operating Humidity	10 to 95%		
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA		
	Insulation Resistance	Primary to Secondary: >7M ohm for 500VDC		
	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)	59.0mm (2.32in) x 40.9mm (1.61in) x 32.4mm (1.27in)		
	DC Cord & Gauge	1500mm & 20AWG		
	DC Output Connector	2.1mm x 5.5mm x 10mm center positive		
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





Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

MODELS

PYA12A050240

PYA12A090130

PYA12A120100

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.