PHIHONG USA CORP

# PYA18A120150

## 18W 12V Fixed Blade Wall Mount Adapter

### 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 PYA18A120150 18-watt 12-volt fixed blade wall adapter is a compact and reliable power solution designed to meet the needs of various electronic devices. With its fixed blade design, this adapter plugs directly into a standard wall outlet without the need for a detachable power cord. The adapter is 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 obtained cULus 62368-1 certification for the adapter and has integrated safeguards such as over-voltage protection, over-current protection, and short-circuit protection into the adapter to help prevent damage to the powered device, providing peace of mind to users.

# PYA18A120150

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## Specifications[1]

| Model | | PYA18A120150 |
|---|---|---|
| Output | DC Output Voltage | 12V |
| | Max Current | 1.5A |
| | Output Power | 18.0W |
| | 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 | ≤0.075W |
| | Average Efficiency[3] | ≥85.452% |
| | Leakage Current | 0.25mA max. at 264VAC/50Hz max., no load |
| Protection | Over-Voltage | 24V max |
| | Short Circuit | Auto-recovery and no damage. |
| | Over-Current | 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)<br>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),<br>IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (2KV L-L, 1KV L-FG),<br>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.<br>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).<br>3. Efficiency is measured after 30 minutes burn-in. | |

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## Outline Drawing