

PYA20A Series

20W Fixed Blade Wall Mount Adapters



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 PYA20A Series 20-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 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 approval 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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Specifications¹

| Model | | PYA20A090222 | PYA20A150133 |
|------------------------------------|--|---|--------------------------|
| Output | DC Output Voltage | 9V | 15V |
| | Max Current | 2.22A | 1.33A |
| | Output Power | 19.98W | 19.95W |
| | 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 | ≥85.965% | ≥85.958% |
| | Leakage Current | 0.25mA max. at 264VAC/50Hz max., no load | |
| Protection | Over-Voltage | 18V max | 30V max |
| | Short Circuit | Auto-recovery and no damage. | |
| | Over-Current | 4.44A max, auto-recovery | 2.66A max, auto-recovery |
| Environmental | Operating Temperature | 0°C to +40°C | |
| | Non-Operating Temperature | -20°C to +70°C | |
| | 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 20AWG | 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 | <ol style="list-style-type: none"> The specifications defined are at ambient temperature of 25C, unless otherwise specified. 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). Efficiency is measured after 30 minutes burn-in. | | |

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Outline Drawing

