

# PPLA18A-120



## 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 PPLA18A-120 18-watt 12-volt fixed blade wall adapter plug 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.

Specifications<sup>1</sup>

Model		PPLA18A-120
Output	DC Output Voltage	12V
	Max Current	1.5A
	Output Power	18.0W
	Regulation	± 1% Line / ± 5% Load
	Ripple & Noise P-P(max) <sup>2</sup>	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 <sup>3</sup>	≥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	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 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"> <li>The specifications defined are at ambient temperature of 25C, unless otherwise specified.</li> <li>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).</li> <li>Efficiency is measured after 30 minutes burn-in.</li> </ol>	

# PPLA15A-050



## Outline Drawing

