

TECHNICAL DATASHEET

10W Interchangeable Wall Plug Adapter Series



Applications

- Double Insulated
- Field Changeable AC Plugs – Sold Separately
- Limited Power Source (LPS)
- US DoE Level VI Efficiency Compliance
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- AS/NZS 4665.1-2005+A1:2009, AS/NZS 4665.2-2005+A1:2009 Compliance
- Class B EMI
- PSM10R-050A(M)-R charging scheme: Data Lines (Pins 2 and 3) Shorted

Features

- Wireless Communications
- Peripherals
- Network Equipment
- Gaming

Safety Standards



Dimensions

71.7 x 45 x 30.79 mm
(2.82 x 1.77 x 1.21 in)

Weight

68 g

Specifications¹

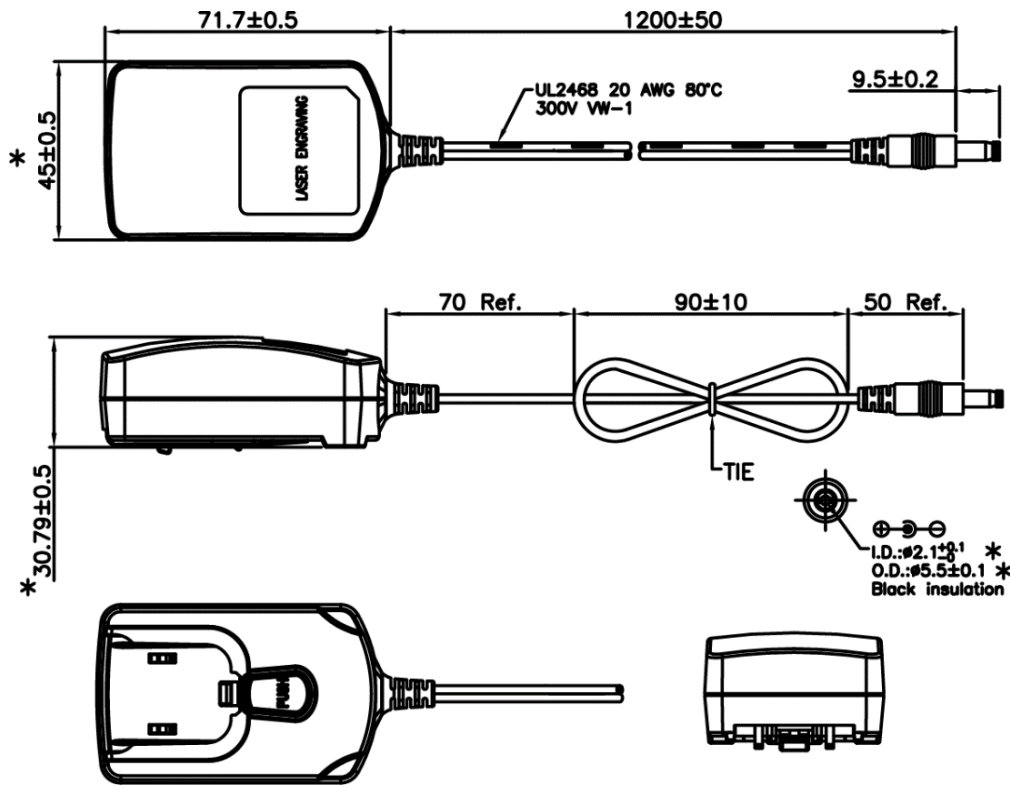
Model	PSM10R-050A-R	PSM10R-050A(M)-R ⁴
Output		
DC Output Voltage	5.0V	5.0V
Max Current	2.0A	2.0A
Output Power	10.0W	10.0W
Regulation	± 5%	± 5%
Ripple & Noise P-P(max) ²	200mV	200mV
Input		
AC Input Voltage Range	90 to 264VAC	
AC Input Frequency	47 to 63Hz	
Input Current	0.5A (RMS) max for 115Vac/max load 0.25A (RMS) max for 230Vac/max load	
Inrush Current	30A for 120VAC, 60A for 240VAC (Cold start at ambient 25°C, full load)	
No Load Power Consumption at 115VAC Input	0.0065W	
No Load Power Consumption at 230VAC Input	0.074W	
115VAC Average Efficiency ³	80.86%	
230VAC Average Efficiency ³	81.06%	
230VAC 10% Load Efficiency ³	80.55%	
Leakage Current	0.25mA at 264VAC, 50Hz	
Protection		
Over-Voltage	10.0V max	
Short Circuit	The output can be shorted without damage	
Over-Current	Auto-restart	
Environmental		
Operating Temperature	0°C to +40°C	
Non-Operating Temperature	-40° to +85°C	
Operating Humidity	10% to 90%	
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 60950-1, cULus 62368-1, IEC60950-1, IEC 62368-1, AS/NZS 62368.1:2018	
EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and 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 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	
Mechanical		
Dimensions (L x W x H)	71.7mm (2.82in) x 45.0mm (1.77in) x 30.79mm (1.21in)	

Weight	68g	
DC Cord	20AWG	22AWG
DC Output Connector	2.1mm x 5.5mm x 9.5mm Barrel	USB Micro-B
Notes		
<p>1. The specifications defined are at ambient temperature of 25°C, unless otherwise specified.</p> <p>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).</p> <p>3. Efficiency is measured after 30 minutes burn-in.</p> <p>4. The charging scheme: Data Lines (Pins 2 and 3) Shorted</p>		

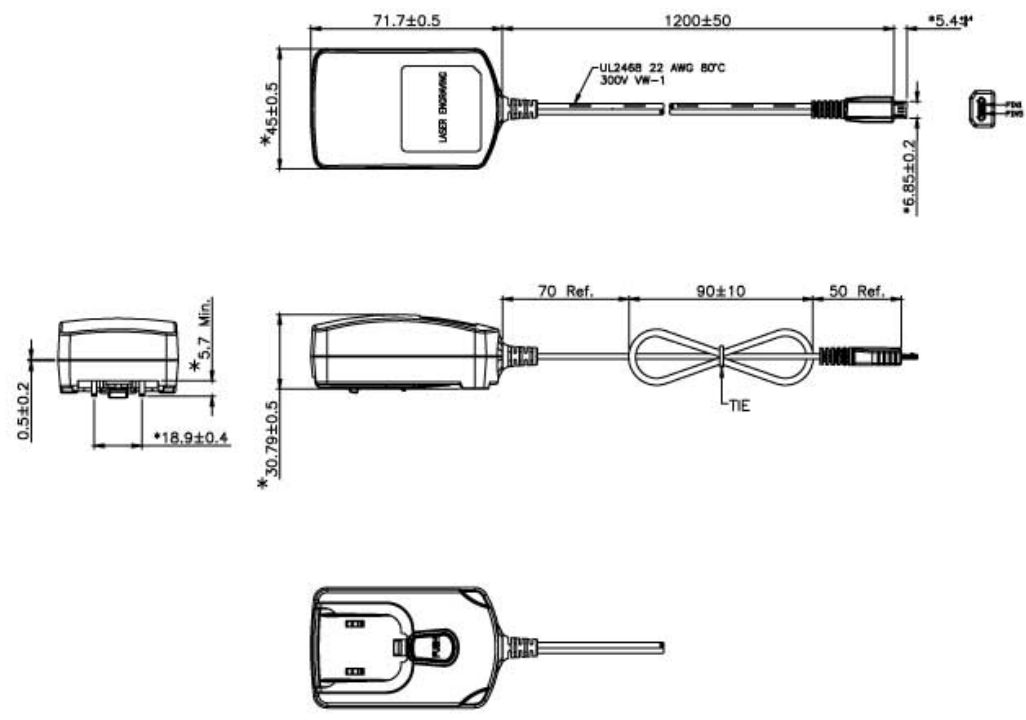
Phihong is not responsible for any error and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

Dimensional Diagram Unit: mm

PSM10R-050A-R



PSM10R-050A(M)-R



Phihong Locations



Headquarters Phihong Technology Co., Ltd
No. 568, Fuxing 3rd Rd., Gueishan Dist., Taoyuan City (33383), Taiwan
Tel : +886-3-3277288
Fax : +886-3-3277622
phsales@phihong.com.tw
www.phihong.com.tw



Phihong Technology Co. Ltd. (Tainan R&D Center)
No. 99, Zhengnan 1st. Street, Yongkang Dist., Tainan City 71046, Taiwan
Tel : +886-6-254-7588
Fax : +886-6-254-7288
phsales@phihong.com.tw
www.phihong.com.tw



Phihong China
Room 101, Building 5, 133-1 Tiesong Road, Qingxi Town, Dong Guan City, Guangdong (523642), China
Tel : +86-769-87319026
Fax : +86-769-87317106
phsales@phihong.com.tw



Phihong USA
47800 Fremont Blvd., Fremont, CA 94538, U.S.A.
Tel : +1-510-445-0100
Fax : +1-510-445-1678
usasales@phihongusa.com
www.phihong.com



Phihong Japan
PMOEX Nihonbashi Kayabacho 10F, 2-12-10
Nihonbashi Kayabacho, Chuo City, Tokyo 103-0025 Japan
Tel : +81-3-6626-5513
Fax : +81-3-6629-0241
phsales@phihong.com.tw
www.phihong.co.jp



Phihong Vietnam
Lot CN5 An Duong Industrial Zone, Hong Phong Commune,
An Duong County, Hai Phong City, Vietnam
Tel : +84-22588-31557