



## 10Watt Interchangeable Plug Series



### Features

- Double Insulated
- Class B EMI
- Level VI Efficiency Compliant
- Limited Power Source (LPS)

### Applications

- Wireless Communications
- Network Equipment
- Peripherals
- Gaming

### Safety Approvals

- UL/cUL 60950-1
- UL/cUL 62368-1
- RCM
- IEC60950-1
- IEC62368-1
- CE

### Mechanical Characteristics

- Length: 71.7mm (2.82in)
- Width: 45mm (1.77in)
- Height: 30.79mm (1.21in)
- Weight: 68g (2.4oz)

### Output Specifications

Model	DC Output Voltage	Load		Ripple <sup>1</sup> P-P (max.)	Output Connector
		Min.	Max.		
PSM10R-050A-R	5V	0A	2A	200mV	Barrel
PSM10R-050A(M)-R	5V	0A	2A	200mV	Micro B

Notes:

1. Ripple measured by using a 12-inch twisted pair terminated with 10uF capacitor and 0.1uF ceramic in parallel with oscilloscope set to 20Mhz measured after a warm-up of 10minutes.

**INPUT:****Input Voltage Rating**

100 to 240VAC

**AC Input Voltage Range**

90 to 264VAC

**AC Input Current**

0.5A (RMS), 115VAC at maximum load  
 0.25A (RMS), 230VAC at maximum load

**AC Input Frequency**

47 to 63Hz

**In-rush Current**

30A for 120VAC at maximum load  
 60A for 240VAC at maximum load  
 (cold start at ambient 25°C)

**Leakage Current**

0.25mA max at 264VAC/50Hz

**OUTPUT****Output Power**

10W

**Efficiency<sup>2</sup>**

DoE Level VI  
 ErP 2009/125/EC (EU 2019/1782)

**Hold up time**

10mS min @115VAC/60Hz, max load

**ENVIRONMENTAL****Temperature**

Operation	0°C to +40°C
Non-operation	-40°C to +85°C
Humidity	10 to 90%

**EMI**

Complies with FCC Class B  
 Complies with EN55032 Class B

**Immunity**

EN61000-4-2 Level 3  
 EN61000-4-3 Level 2  
 EN61000-4-4 Level 2  
 EN61000-4-5 Level 2  
 EN61000-4-6 Level 3  
 EN61000-4-11  
 EN61000-4-12  
 EN61000-3-2 Class A  
 EN61000-3-3

**Isolation (HI-POT test)**

Pri. to Sec. 3000VAC for 1 minute, 10mA

**Insulation Resistance**

&gt;50M ohm 500VDC

**FEATURES:****Over Current Protection**

Short Circuit Auto-restart

**Short Circuit Protection**

Output can be shorted without damage

**Over Voltage Protection**

10VDC max at full load

**Dielectric Withstand (Hi-pot) Test**

Pri. to Sec.: 3000V AC for 1 min., 10mA

**DC Cord**

1200mm (20 AWG for barrel connector,  
 22AWG for Micro B connector)

**AC Input clips (sold separately):**

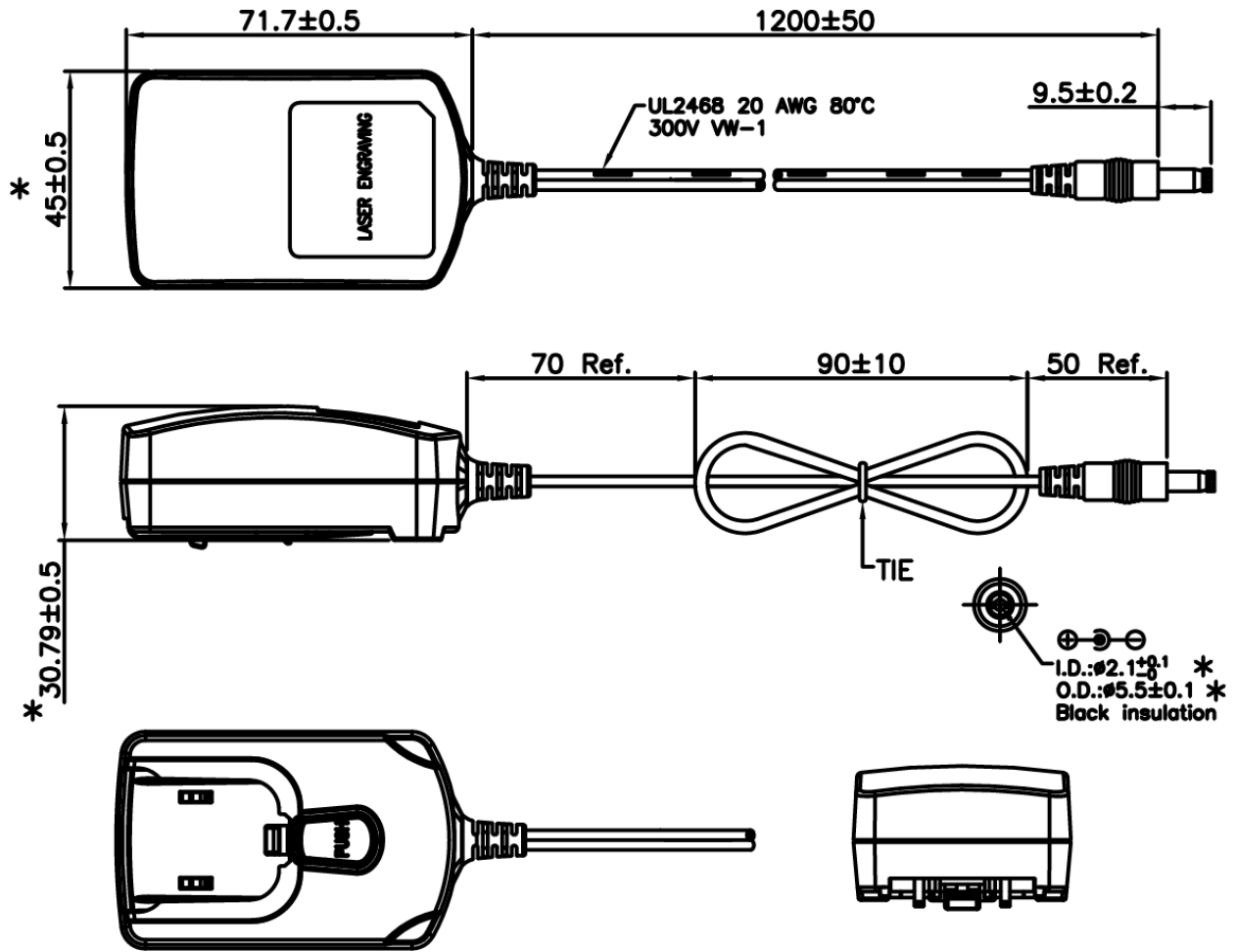
RPA – US  
 RPB – Brazil  
 RPC – China  
 RPE – Europe  
 RPH – Korea  
 RPI – India  
 RPK – UK  
 RPN – Argentina  
 RPS – Australia  
 RPX – IEC320 C8

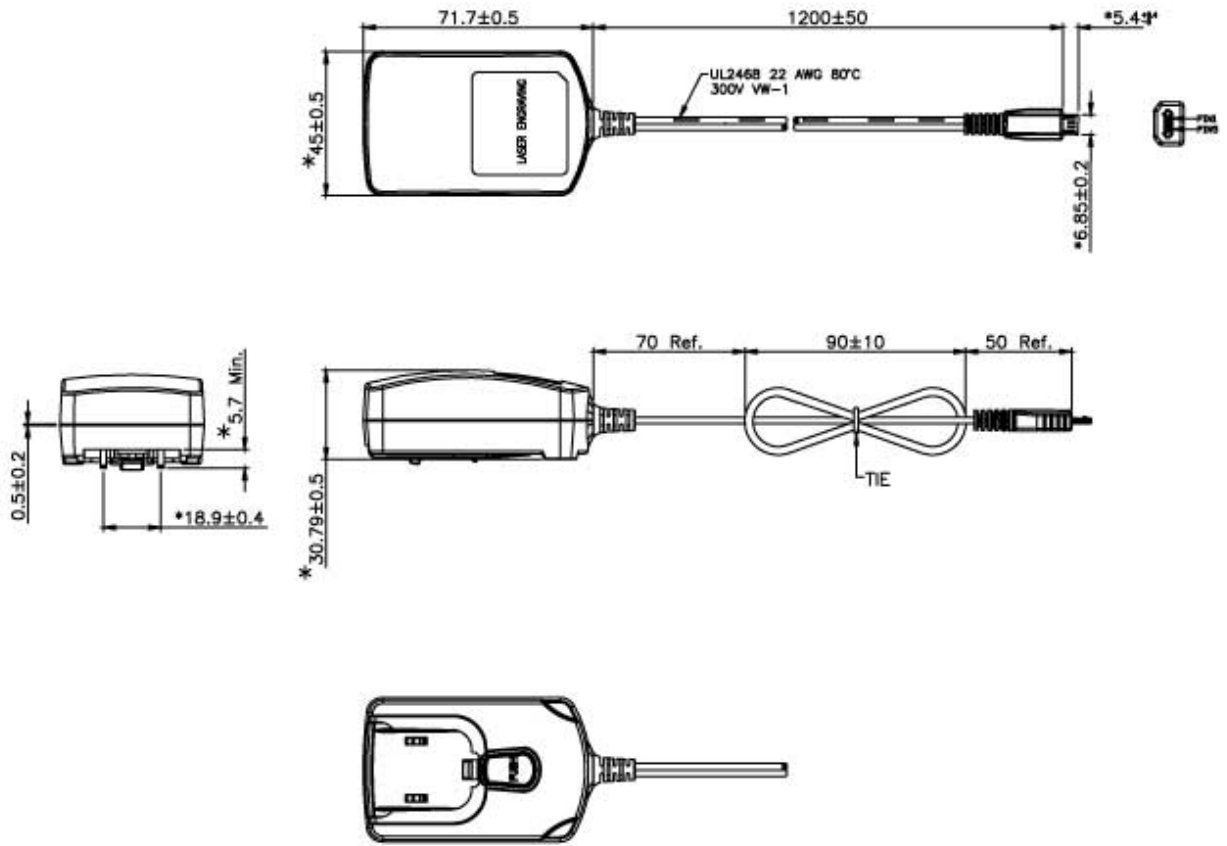
**Notes:**

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. Efficiency is measured after 30 minutes burn-in

PSM10R-050A-R

Dimension Diagram Unit: mm





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

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NOTE: This model has/The models in this products series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.