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# **Single Port 15.4W Power over Ethernet** Interchangeable\* Wall Plug Adapter









\*Plugs sold separately

#### **Features**

- DOE Level VI Compliant
- Fully Compliant with IEEE802.3af
- Non-Vented Case
- Field Interchangeable AC Clips\*
- Limited Power Source (LPS)
- 1G and 2.5G Data Speed Options
- Low Cost
- Full Protection OCP, OVP
- Diagnostic LEDs
- 1 Year Warranty

#### **Applications**

- IP Telephones
- Wireless Network Access Points
- Blue Tooth Access Points
- **Security Cameras**
- **IP Print Servers**

# Safety Approvals – varies per model

cUL/UL 62368-1

• IEC 62368-1

#### **Mechanical Characteristics**

- Length: 80mm (3.15in)
- Width: 45mm (1.77in)

- Height: 33mm (1.30in)
- Weight: 114g (4.0oz.)

#### **Output Specifications**

Model	DC Output	Load		Output	Data	Efficiency	Regulation	
	Voltage	Min.	Max.	Power	Speed	Efficiency	Line	Load
POE16R-1AFG6-R	56V	10mA	0.275A	15.4W	1G	VI and Lot 7	+1V/-2V	
POE16R-1AFG6-2-R	56V	10mA	0.275A	15.4W	2.5G	VI and Lot 7	+11	V/-2V

#### POE16R-1AFGyyyy-R Characteristics<sup>1</sup>

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**INPUT:** 

**AC Input Voltage Range** 

90 to 264VAC

AC Input Voltage Rating

100 to 240VAC

**AC Input Current** 

0.55A (RMS) max for 90VAC 0.35A (RMS) max for 240VAC

Leakage Current

0.5mA max @ 254VAC/50Hz

**AC Input Frequency** 

47-63Hz

**AC Inrush Current** 

30A (RMS) max for 115VAC 60A (RMS) max for 230VAC

**OUTPUT:** 

**Total Output Power** 

15.4W

Ripple and Regulation<sup>2</sup>

200mV max, 115VAC/60Hz and

230VAC/50Hz

Efficiency<sup>3</sup>

DOE Level VI

ErP Lot 7/Ecodesign (EU) 2019/1782

**Transient O/P Voltage Protection** 

60V max at switch on/off, any AC line

phase

**ENVIRONMENTAL:** 

**Temperature** 

Operation  $-20 \text{ to } +45^{\circ}\text{C}$ Non-operation  $-20 \text{ to } +75^{\circ}\text{C}$ Humidity 5 to 90%

**EMC** 

Complies with FCC Part 15 Class B Complies with EN55032 Class B

**Immunity** 

Harmonic: EN61000-3-2 Class A

ESD: EN61000-4-2. Contact 6KV

Air 8KV. Criteria B

RS: EN61000-4-3. 3V/M

EFT: EN61000-4-4. 1KV input

0.5KV output

EN61000-4-5. L-N 1KV Surge:

L-G 2KV

EN61000-4-6. 3V CS:

Voltage Dips EN61000-4-11 Class 3

**Dielectric withstand (HI-POT)** 

4242VDC for 1 sec, 10mA, 4 sec ramp time

**Insulation Resistance** 

Primary to Secondary: >10M OHM 500VDC

**FEATURES:** 

**Over Current Protection** 

<450mA

**Over Voltage Protection** 

< 120VDC – Latching.

**Short Circuit Protection** 

300-450mA for 50-75ms

**Hold-up Time** 

16mS min. 120VAC/60Hz and max load

#### Notes:

- The characteristics defined are at ambient temperature of 25°C unless otherwise specified
- Measured with by-pass capacitors 0.1uf/10uf at output connector terminal and oscilloscope set at 20Mhz (tested by oscilloscope). 20 minutes warm-up required when operating at negative temperature.
- Efficiency is measured after 30 minutes burn-in

# POE16R-1AFGyyyy-R Characteristics

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#### **LED Indicators**

Load/Short Condition

Bicolor LED GREEN/YELLOW
Blinking GREEN – Unit is "ON" Active with
No Load
Solid GREEN – Unit has detected a Valid
IEEE802.3af Load
Blinking YELLOW/GREEN – Unit has
detected an Invalid Load

Blinking YELLOW – Unit is in Over

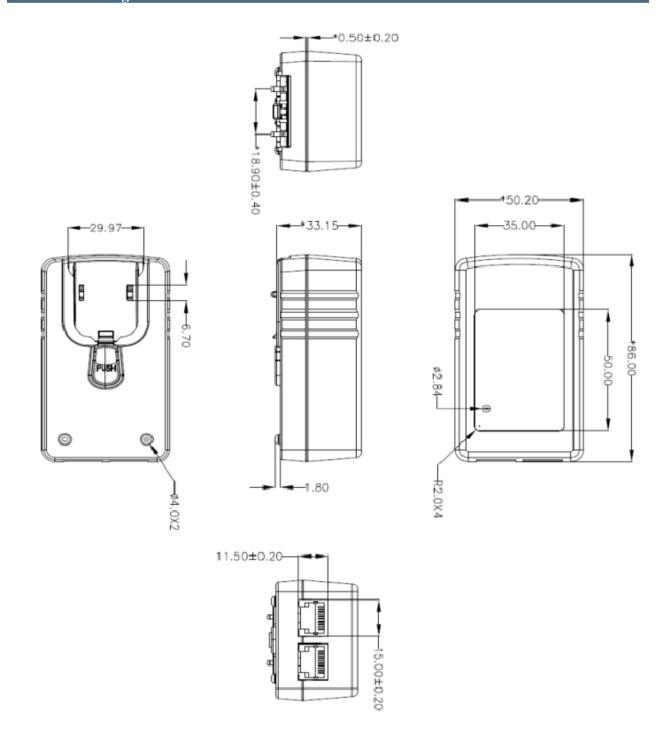
Output Connection +pin 3,6 / -pins 1,2

**Data in/Output Connector** 

# Warranty

1 Year

RJ45



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

Phihong USA Corporation 47800 Fremont Boulevard Fremont, CA 94538 Telephone: (510) 445-0100 www.phihong.com

NOTE: This model has/The models in this product 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:

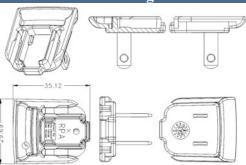
- -Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

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

# RPA-R – US Clip



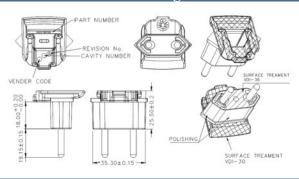
# **Dimension Drawing Unit: mm**



RPB-R – Brazil Clip



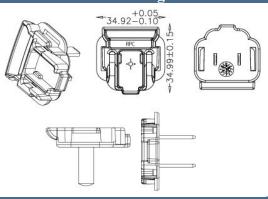
**Dimension Drawing Unit: mm** 



RPC-R – China Clip



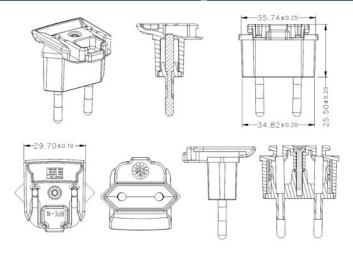
**Dimension Drawing Unit: mm** 



RPE-N-R – Europe Clip



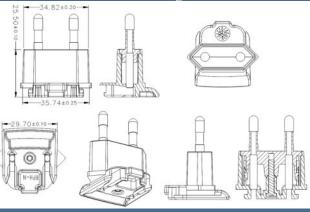
# **Dimension Drawing Unit: mm**



# RPH-R – Korea Clip

# **Dimension Drawing Unit: mm**

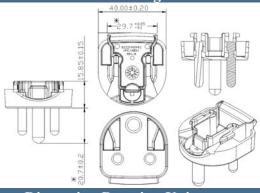




RPI-R – India Clip

**Dimension Drawing Unit: mm** 

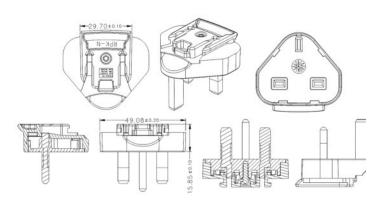




RPK(NC)-R – UK Clip

**Dimension Drawing Unit: mm** 

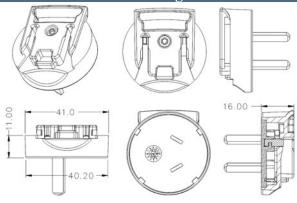




RPN-R – Argentina Clip

**Dimension Drawing Unit: mm** 







# RPBAG(NC)-R

# RPBAG(NC)-R

Product package comes with RPA-R, RPE-N-R, RPK(NC)-R and RPS-N-R interchangeable clips in a plastic bag.

