

PT-PSE118GBR-OT_60W Series

Quick Installation Guide




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Declaration

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 The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

Overview

The installation Guide for PT-PSE118GBR-OT_60W Series and mainly introduces the hardware specification, installation methods, and precautions of the installation. There may be differences in the appearance and configuration from other models. All product images in this manual are for illustration purposes only and may differ from the actual product.

This manual includes the following chapters:

1. Product Introduction. Including the basic functions and specification of PT-PSE118GBR-OT_60W Series, as well as the product appearance and applications introduction.
2. Installation Introduction. Introducing the preparation work and precautions before installing the product.
3. Product Installation. Two methods of product installation.

For Whom

This manual is intended for:

Network Engineers
Network Administrators
Field Technicians

List of differences

Model	PoE Standard	Data Rates	AC Input	Output	Power Pins	Port
PT-PSE118GBR-OT	IEEE802.3af/at/bt	10/100/1000Mbps	100~240Vac 1.5A(Max)	55Vdc 1.1A (Max) 60W	4,5(+)/7,8(-) 3,6(+)/1,2(-)	AC*1 PoE*1 LAN*1 Grounding*1
PT-PSE118GBR-OT-10	IEEE802.3af/at/bt	10/100/1000Mbps 2.5/5/10Gbps				
PT-PSE118GBRN-OT	Passive	10/100/1000Mbps				
PT-PSE118GBRN-OT-10	Passive	10/100/1000Mbps 2.5/5/10Gbps				

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1. Introduction

1.1 Introduction

- This unit requires grounding.
- Please use PoE-powered equipment that complies with 802.3af/at/bt standards to connect to this product.
- For 100Base-TX Ethernet, it is recommended to use Cat 5 or higher UTP/STP cables.
- For 1000Base-T Ethernet or 2.5GBase-T Ethernet, it is recommended to use Cat 5e or higher UTP/STP cables.
- Do not connect Ethernet ports to telephone lines.

1.2 Appearance

- Side View

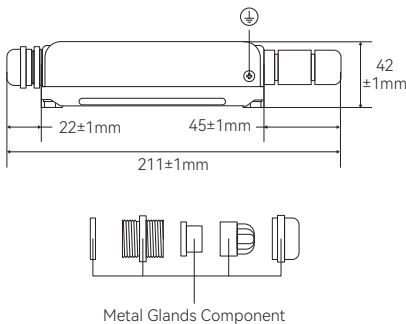


Figure 1-1 Side View Schematic

- Front View

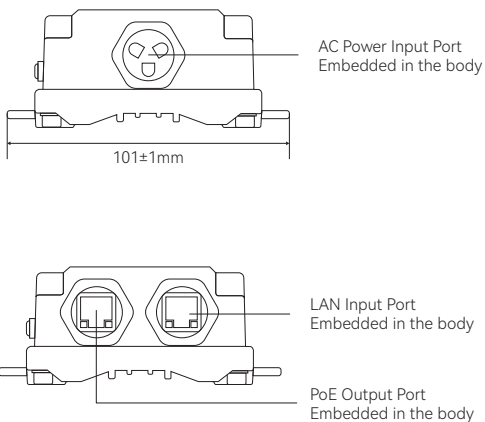


Figure 1-2 Front View Schematic

LED Indicator Chart (with all indicators).

Items	Status	Descriptions
PoE Power Indicator	Solid Green Light	The equipment is powered
	Light Off	The equipment is powered off / not plugged in / no power
PD devices Indicator	Solid Yellow Light	System Successfully Detected PD Device
	Flashing Yellow Light	Detecting
	Light Off	No devices / PD fault

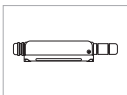
1.3 Specification

Items	Descriptions
Interface	AC*1 PoE*1 LAN*1 Grounding*1
PoE Standard	IEEE802.3af/at/bt
Power Pins	4,5(+)/7,8(-) 3,6(+)/1,2(-)
Data Rates	10/100/1000Mbps, 2.5/5/10G
Network Protocol	IEEE802.3i/IEEE802.3u/IEEE802.3ab
AC Input	100-240Vac 1.5A(Max)
Output	55Vdc 1.1A(Max) 60W @50°C
	55Vdc 0.82A 45W @55°C
	55Vdc 0.55A 30W @65°C
PoE Surge Protection	Protected line: 1,2,3,4,5,6,7,8
	Common mode surge protection(10/700us): 6KV
	Differential mode surge protection (10/700us): 1.5KV
Operating Temp.	-40°C to 65°C
Operating Humidity	20%-90%, non-condensation
Operating Altitude	Up to 2000 meters
Storage Temp.	-40°C to 80°C
Storage Humidity	10%-90%, non-condensation
IP Rated	IP67
Dimensions & N.W	211mm X 101mm X 42mm 628g
Overcurrent protection	Overcurrent protection for each PoE port, exceeding the current limit of 1.25~1.3A will shut down the port power

2. Installation Preparation

2.1 Package contents

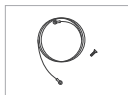
Open the box of the PT-PSE118GBR-OT_60W Series and carefully unpack it, the box should contain the following items:



PT-PSE118GBR-OT_60W Series



Operating Manual



Ground
lug Wire&3.0 Screw

2.2 Inspection

Before installing the device, please feed it with an AC power source to check proper function first.

Connect the LAN port to the data source/uplink for network access.

Connect the PoE port to the PoE-powered device(PD). Such as the IP Cameras or Wireless APs to check the PoE function. As shown in Figure 2-1.



Notice:

Please use PoE powered device(PD) that complies with IEEE802.3af/at/bt/PoE++ to connect this product.

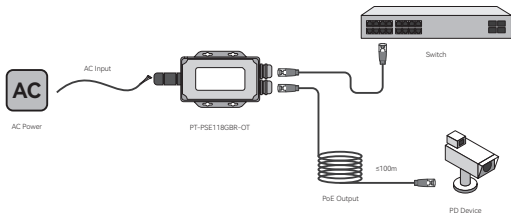


Figure 2-1 Connection Schematic

Notice:

1. Connect the AC power cable with L(Live), N(neutral) and G(Ground) wires to the AC terminal block of the unit.
 2. For LAN port, connect a CAT5e/6 cable from your Data source, such as a router/switch into the unit's LAN port, for Ethernet uplink.
 3. Connect a CAT5e/6 cable with the RJ45 connector into the RJ45 socket labeled PoE. On the other end of the CAT5e/6 cable, connect to your PoE-powered Device (such as IP Camera, etc). The total Ethernet cable length can not exceed 100 meters.
 4. This device must be grounded.
-



3. Installation

This product is suitable for safe use in the way of holding pole and wall mounting.

3.1 Installation on the holding rod

The equipment is mainly fixed to the vertical pole by means of a holding rod assembly, the diameter of which should be between 70mm and 110mm. Normally, the equipment is installed on the top floor of the building by means of a pole mounting.

(1) Pass the hoop through the fixing hole of the product, as shown in Figure 3-1:

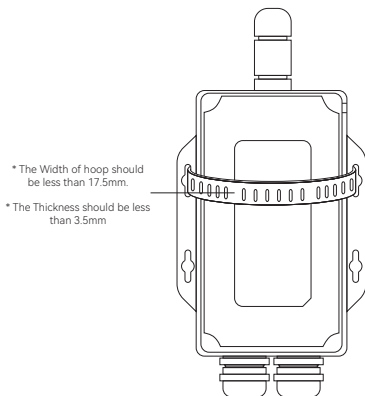


Figure 3-1 Schematic diagram of hoop ring

(2) Use the nut and screw to lock the hoop ring in place, as shown in Figure 3-2:

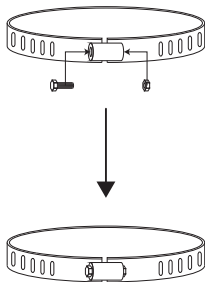


Figure 3-2 Schematic diagram of hoop ring

3.2 Wall mounting

Expansion bolts are required if the unit needs to be mounted on a wall.

- (1) Attach the screw hole locator label to the wall.
- (2) Drill 8mm diameter holes at the screw hole markings, then use a rubber mallet to tap the end of the bolt to secure the expansion bolts to the holes.

Please pay attention to the following matters during the drilling process:

- When drilling, please pay attention to keep the drill bit perpendicular to the wall, hold the drill handle with both hands, grasp the direction, and do not shake in order to avoid damaging the wall and tilting the hole.
- If the wall is particularly solid and smooth and the drill bit is not suitable for positioning, a sample punch can be used first to cut a dimple in the hole to help position the drill bit.

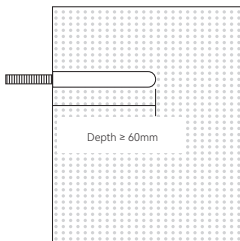


Figure 3-3 Expansion bolt depth schematic

(3) Place the protruding screws through the product fixing holes and tighten with nuts. As shown in Figure 3-4.

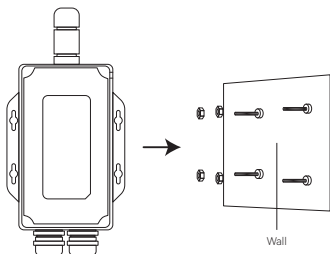


Figure 3-4 Fixed Installation Schematic

3.3 Interface Connection

RJ45 port (shown in Figure 3-5)

(1) Remove the metal seals from the product. There are a total of five seals to be removed; here, one RJ45 port is used as an example.

(2) Slide the metal seal components onto the Ethernet cable in the following order (the waterproof rubber stopper is not cut diagonally by default), and then crimp the RJ45 connector.

Our waterproof rubber stoppers are available with inner diameters of 8mm(for 5–8mm cable) and 12mm(for 8–12mm cable). The 12mm option is provided by default unless otherwise specified when placing the order. If the user is using pre-terminated Ethernet cables with RJ45 connectors, make a diagonal slit on the side of the waterproof rubber stopper (or request pre-cut rubber stoppers when placing the order). The cable can then pass through the slit into the central hole of the rubber stopper. Afterward, insert the Ethernet cable with the waterproof connector into the product interface.

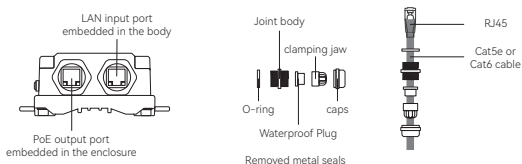


Figure 3-5 RJ45 Port Connection Diagram

AC port (shown in Figure 3-6)

(1) The AC input port uses screw terminals for connection. The AC input port has indicator markings to define the three pins, labeled as Live (L)(Red), Neutral (N)(Black), and Ground (G)(Yellow).

(2) The AC power cable diameter should be between 4.5mm and 12mm. Strip 25mm of the cable sheath and 10mm of each wire's insulation. Thread the power cable through the waterproof cap.

(3) Insert the wires into the correct terminal pins and use a straight screwdriver to secure the wires to each pin.

(4) Slide the waterproof gland over the AC input port pins and hand-tighten it to the enclosure.

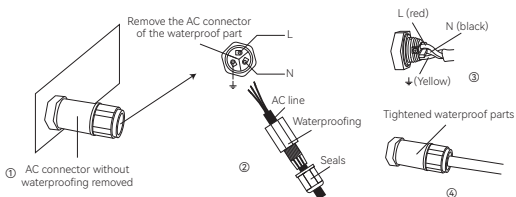


Figure 3-6 AC Port Connection Diagram

3.4 Grounding Installation

The grounding solutions summarized from numerous installation processes of the PROCET PoE switch PT-PSE118GBR-OT_60W Series product are as follows, and are intended solely for reference during the grounding installation of this product:

If this product is installed in a computer room, it can be connected to the dedicated grounding busbar in the room. The grounding busbar is a connecting conductor between grounding bodies in the building, and currently available materials include flat iron, flat steel, nanomaterial conductors, copper-clad steel, etc. The grounding wire connects the equipment to the grounding busbar, as shown in Figure 3-7;

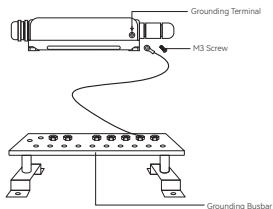


Figure 3-7 Grounding Busbar Installation

In environments without dedicated grounding equipment, for the safety of personnel and equipment, we can construct a simple grounding system (as shown in Figure 3-8):

- (1) Prepare a 6mm^2 grounding wire or braided flexible copper wire.
- (2) Prepare a copper tube, angle iron, or other metal tube and bury it below one meter underground to serve as the earth electrode.
- (3) Use the grounding wire to connect the grounding terminal on the exterior of the product to the metal tube (or angle iron).



Notice:

If there is truly no available environment, as an emergency measure, you can follow the method for simple grounding by connecting a galvanized metal pipe buried below one meter underground. Examples include drainage pipes, sewage pipes, etc.

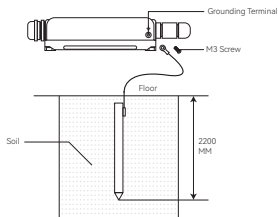


Figure 3-8 Diagram of Simple Grounding Installation

4. Accessory Information

4.1 Metal Seals

This product uses the T586B standard for network cable, does not support the use of mechanism network cable, if you need to use the mechanism network cable, you can order extended metal seals to use. As shown in Figure 4-1 and 4-2:

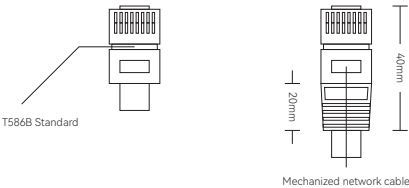


Figure 4-1 Schematic of Common RJ45 Ports

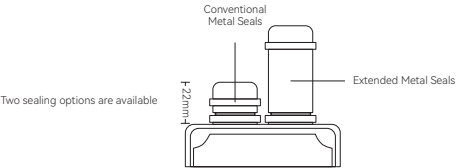


Figure 4-2 Schematic diagram of two metal seals

Optional Information

	Name	Norm	Note
01	Eco-friendly metal waterproof connector	M22;waterproof rubber plug M8	conventional
02	Eco-friendly metal waterproof connector	M22 (extended body, 40MM); waterproof rubber plug M8	customizable

4.2 Waterproof Plug

We have two kinds of waterproof plugs, the unpeeled one is suitable for on-site threading before manually pressing the RJ45 head, the peeled one is more convenient to use (the diameter of the inner hole of the waterproof rubber plug is 8mm or 12mm, the default is matched with 12mm, otherwise, please make a note when you place an order). As shown in Figure 4-3:

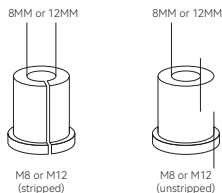


Figure 4-3 Schematic diagram of two waterproof rubber plugs



Attention:

Shielded or unshielded super category 5 and above network cable, the outer diameter of the use range of 5-8mm applies M8 waterproof plug; the outer diameter of the use range of 8-12mm applies M12 waterproof plug. Default with M12 waterproof plug, otherwise please note when ordering.

Qualification Card

PASS