

Level VI Energy Efficiency PoE Injector

Datasheet

PT-PSE10GF-25-US

PT-PSE10GF-25-EU

PT-PSE10GF-25-UK



Contents

1 Product Introduction	05
1.1 Product Positioning.....	05
1.2 Product Features.....	05
1.3 Product Appearance.....	06
2 Product Specifications	08
2.1 Electrical Parameters.....	08
2.2 PoE Characteristics.....	08
2.3 Physical Characteristics.....	09
2.4 Environmental Parameters.....	09
2.5 Compliance Certifications.....	09
3 Installation Preparation	10
3.1 Items Required for Installation.....	10
3.2 Equipment Inspection.....	10

Declaration

Copyright Notice

Copyright ©2025 Creative Lianjie Network Technology Co.Ltd

All rights reserved.

Without the prior consent of PROCET, no organization or individual is permitted to imitate, reproduce, plagiarize, or translate any part or all of this manual, nor to distribute it in any form (electronic, photocopying, recording, etc.) for commercial purposes.

This product complies with environmental protection design standards. Please do not dispose of this product as household waste. Users are advised to separate this product from domestic waste at the time of disposal. Proper waste classification will contribute to the conservation of natural resources and the reduction of environmental pollution.

Trademark Notice

PROCET is a registered trademark of Beijing Creative Lianjie Network Technology Co., Ltd.

All other trademarks or registered trademarks mentioned in this document are the property of their respective owners.

Disclaimer

The products, services, or features you purchase are governed by the commercial contracts and terms of PROCET. The content of this document may not fall within the scope of your purchase or use. Unless otherwise specified in the contract, PROCET makes no express or implied representations or warranties regarding the contents of this document.

Due to product updates or other reasons, the contents of this document are subject to change without prior notice, and any necessary corrections will be incorporated in subsequent versions. Unless otherwise agreed, this document is provided for guidance only and does not constitute any express or implied warranty.

Document History

Version	Date	Notes
v1.0	2025/09/15	First Version Release

For Whom

This manual is intended for:

Network Engineers

Network Administrators

Field Technicians

Model Comparison Chart

Item	PT-PSE10GF-25-US	PT-PSE10GF-25-EU	PT-PSE10GF-25-UK
PoE Std.	IEEE802.3af Power over Ethernet		
Input	90~264Vac		
PoE Out.	48Vdc 0.32A 15.4W		
Plug	US	EU	UK
Size	82.97mm X 50.84mm X 53.5mm		
Certification	CE/FCC/ERP		

1 Product Introduction

1.1 Product Positioning

PT-PSE10GF-25 is a single-port PoE injector designed for indoor use. It operates reliably with an input voltage range of 90–264VAC and supports network environments of 10/100/1000Mbps/2.5G. The injector connects to network terminal devices via Cat5e cables, with an effective transmission distance of up to 100 meters.

The PT-PSE10GF-25 features a plastic enclosure, AC plug input, and is purpose-built for indoor installation. It delivers a maximum output power of 15.4W per port. With its white housing, desktop form factor, and compact size, it helps save installation space.

1.2 Product Features

Energy Efficiency Class VI: Compliant with ERP energy efficiency standards, featuring low no-load power consumption ($\leq 0.3W$) and high efficiency (over 85%).

Wide input voltage: Supports input within the full voltage range of 90–264Vac.

User-Friendly: Automatically detects and identifies powered devices, matches the required output power, plug-and-play with no configuration needed.

Compact Size: The compact design allows for easy installation on WLAN access points and IP cameras.

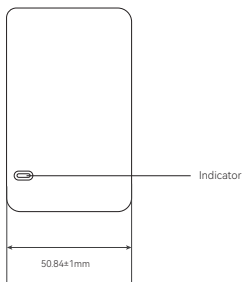
Protection Features: Over-current, over-voltage, over-temperature, and short-circuit protection.

Safety: Low-power devices receive only the power they require. Automatically detects and protects non-standard Ethernet terminals.

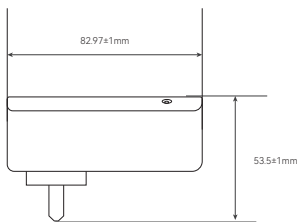
Certifications: Complies with CE, FCC, and ERP certifications.

1.3 Product Appearance

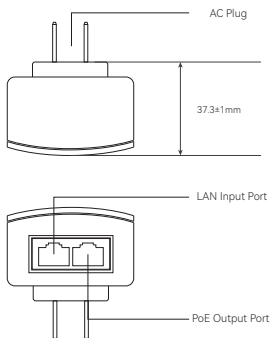
- Top View



- Side View



- Front View



Port Indicator Lights (including all product indication states), with status descriptions as follows:

Item	Status	Description
ACTIVE Indicator	Solid Red	The device is powered on and can operate normally.
	Off	The device is not powered on or the power - on fails.
	Solid Green	PoE power supply.

2 Product Specifications

2.1 Electrical Parameters

Item	PT-PSE10GF-25-US	PT-PSE10GF-25-EU	PT-PSE10GF-25-UK
Ports	AC Input *1 PoE*1 LAN*1		
PoE Std.	IEEE802.3af Power over Ethernet		
Input	90-264Vac		
PoE Out.	48Vdc 0.32A 15.4W		
Power Pins	4/5(+),7/8(-)		
EER	≥85%		
NLPC	≤0.3W		
Surge Protection	AC Port: Common Mode: 2KV Differential Mode: 1KV		
Data Rate	100/1000/2500Mbps		

2.2 PoE Characteristics

Item	
PoE Std.	IEEE802.3af Power over Ethernet
PoE Out.	48Vdc 0.32A 15.4W
Power Pins	4/5(+),7/8(-)
Data Rate	100/1000/2500Mbps
Network Protocol	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-Tx Fast Ethernet IEEE802.3ab Gigabit Ethernet IEEE802.3bz 2.5GbE NBASE-T

2.3 Physical Characteristics

Item	PT-PSE10GF-25-US	PT-PSE10GF-25-EU	PT-PSE10GF-25-UK
Enclosure	White Plastic		
Plug	US	EU	UK
Size	82.97mm * 50.84mm * 53.5mm		
Weight	93g		
IP Rate	IP40		

2.4 Environmental Parameters

Item	PT-PSE10GF-25-US	PT-PSE10GF-25-EU	PT-PSE10GF-25-UK
Op. Temp	0°C to 40°C		
Op. Humid.	20%-80%, non - condensing		
Op. Altitude	Below 5000 meters		
Stor. Temp.	-20°C to 70°C		
Stor. Humid.	10%-90%, non - condensing		

2.5 Compliance Certifications

Safety Standard: IEC 60950-22 (Information Technology Equipment Safety)

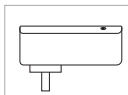
EMC Standards: CE, FCC (Electromagnetic Compatibility)

Environmental Standard: RoHS (Restriction of Hazardous Substances)

3 Installation Preparation

3.1 Items Required for Installation

When installing the device, the following items are required. These items are assembled in the product packaging box.



PT-PSE10GF-25

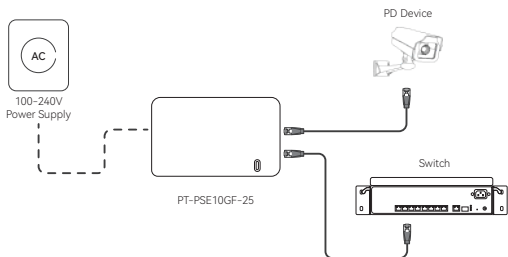


User Manual

3.2 Equipment Inspection

Before installing the device, please connect the device to the power supply first to check whether it can operate normally.

Connect the power supply using the AC port, connect the LAN port to a switch to provide a network. When using standard PoE power - supply, connect the PoE port to a PD device that supports the PoE power - supply function, such as a PoE - enabled camera, as shown in below.



Notice:



- Do not install the device while it is powered on.
- Please make sure to read the user manual carefully before using the device and operate it according to the instructions.
- Ensure that there is sufficient space (at least 5 cm) around the device to allow for proper heat dissipation.
- Do not place heavy objects on top of the device.