SPECIFICATION FOR APPROVAL

CUSTOMER	: _	
PRODUCT NA	ME : _	60W High-power Gigabit DIN Rail PoE Injector
PRODUCT MO	DEL :	PSE60G
BRAND	:	TST (OEM/ODM)
DATE	:	2024 / 06 / 26

	DRAWING		CUSTOMER APPROVE
DESIGNED	CHECKED	APPROVED	
VANNE	YOUTRONG	Mark	
DATE	2024 / (06 / 26	Please return the visa after
DATE	2021 /	00 / 20	confirmation, thank you!

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PRODUCT: 60W High-power Gigabit DIN Rail PoE Injector

MODEL: PSE60G



What Is PoE

POE (Power Over Ethernet) refers to the technology that can transmit data signals for some IP-based terminals (such as IP phones, wireless LAN access point APs, IP cameras, etc.) without any changes to the existing Ethernet Cat.5 cabling infrastructure, and can also provide DC power supply for such devices.

A complete POE system consists of two parts: Power Sourcing Equipment (PSE) and Powered Devic e (PD). The PSE device is the device that powers the Ethernet client device and is also the manager of t he entire POE (Power-over-Ethernet) process. The PD device is the PSE load that receives the power sup ply, that is, the client device of the POE system. Based on the IEEE 802.3af/at standard, the two establis h information about the connection status, device type, power consumption level and other aspects of the PD of the power receiving device, and use this as the basis for PSE to supply power to the PD through Ethernet.

The Principle of POE



The standard Category 5 cable has four twisted pairs, but only two pairs are used in 10M BASE-T a nd 100M BASE-T. IEEE80 2.3af/at allows two uses: (1) When the idle pin is used for power supply, pin s 4 and 5 are connected as the positive pole, and pins 7 and 8 are connected as the negative pole. (2) P in 1 and pin 2 are connected as the positive pole, and pin 3 and 6 are connected as the negative pole.

The Advantages of POE

- 1. Save labor and material costs. Compared with the traditional wiring method of weak current engineerin g, POE only needs to install a network cable to make the IP equipment work normally. In many cases, P OE is more advantageous in the places where it is difficult to deploy AC power. As the number of netw ork devices in the system increases, the use of POE eliminates the need for local power supply for the e quipment, which will greatly reduce deployment costs and simplify their manageability.
- 2. Easy to install and manage. Customers can autonomously and securely mix PoE devices and legacy de vices within the system, and can coexist with existing Ethernet cables. PoE devices are compatible with the management system of existing network devices and can share the management platform with existing network devices.
- 3. Good security. The Power Sourcing Equipment (PSE) in a PoE system will only supply power to the Powered Device (PD) that needs to be powered. Only when the Device that needs to be powered is connected and the protocol is successfully identified, the power supply equipment will have a voltage output and supply power to the powered device, thus eliminating the risk of leakage and short circuit on the line.

Product Introduction

PSE60G is a 60W high-power Gigabit DIN rail POE Injector, which conforms to the IEEE802.3BT p rotocol and is compatible with the IEEE802.3AF/AT protocol, and the maximum output power can reach 60W.

The PSE60G is a high-power active single-port POE injector with handshake recognition function. On ly after the PD device is connected and the handshake is successfully recognized, the PSE60G will supply power to the back-end PD device. It can output 60W high-power POE signals to power and transmit sig



nals to PD equipment with high power consumption, such as high-speed domes, PTZ cameras, large-size displays, high-power broadcast audio equipment, etc.

Product Description

The PSE60G has a P+D/OUT port, a Data/IN port, and an AC port. P+D/OUT port is the POE outp ut port, which can output POE signals of up to 60W to power high-power PD equipment and transmit da ta and instructions for it. The Data/IN port is a Gigabit uplink port, which can be connected to network management devices such as switches, routers, or network servers, and is responsible for accessing LAN a nd Ethernet. The AC port is directly connected to the AC power socket of AC100-240V 50/60HZ and ge ts AC power to start the equipment to work.

PSE60G supports three types of mounting, namely rail mounting, wall mounting, and desktop mounting. The PES60G has mounting rails on both sides, which can be installed on the rails in the distribution cabinet. It has screw holes on the bottom and can be wall-mounted through the screw holes. Desktop installation is also supported. The PSE60G's shell is designed with heat dissipation grilles on both sides to help dissipate and ventilate the motherboard, reducing the temperature of the motherboard. At the same time, the product is designed with a power indicator and a POE indicator to facilitate a more intuitive judg ment of its working status. Its shell is made of environmentally friendly and high-temperature resistant A BS plastic material, and the appearance color is matter black. The overall appearance is very beautiful.

PSE60G conforms to the IEEE802.3bt international POE standard protocol and is compatible with the IEEE802.3af/at protocol. It can reach a maximum output power of 60W (IEEE802.3bt) while supporting both 30W (IEEE802.3at) and 15.4W (IEEE802.3af) outputs. It has a data transfer rate of Gigabit and sup ports 10M/100M/1000M adaptive transmission at the same time. It supports wide voltage input AC100-240 V 50/60HZ, and is compatible with mains voltages and frequencies in all countries around the world. Its conversion efficiency is more than 85%, the POE signal transmission distance is more than 100 meters, a nd the POE power supply pin adopts RJ1245+ RJ3678- eight-line full power supply mode.

The motherboard of PSE60G is equipped with a high-power isolation transformer, which adopts an is olated design solution and takes into account the design concept of heat dissipation and high temperature resistance. The motherboard circuit has the protection functions of anti-high-voltage lightning, anti-short cir

cuit, anti-overload, anti-high temperature, etc., and at the same time integrates anti-electric shock and anti-electric leakage design ideas to ensure the safety of product use. The EMC parameters can meet the requirements of IEC 61000-4-2/3/4/5/6 standards. The products have obtained CE, FC, Rohs and other certificat ions, and sell well in more than 100 countries and regions around the world.

Product Features

- IEEE802.3af/at/bt POE international standard protocol and handshake recognition function
- Wide input voltage AC100-240V 50/60HZ
- Output: 48V1.25A 60W, other voltages can be customized
- 10M/100M/1000M adaptive transmission speed
- RJ1245+ RJ3678- Power supply pin
- Rail mounting, wall mounting, desktop mounting and other installation methods
- There are heat dissipation grids on both sides for easy heat dissipation
- Small size, less space, easy to install
- 6KV surge protection
- With overheat protection, overvoltage protection, overload protection, short circuit protection
- Anti-electric shock and anti-electric leakage design, safer to use
- The conversion efficiency is over 85%
- EMC complies with IEC 61000-4-2/3/4/5/6 standards
- Environmental and high temperature resistant ABC plastic material

Specifications

Items	Specifications
Product Name	60W high-power Gigabit DIN rail POE Injector
Product Model	PSE60G
PoE Standard	IEEE802.3af/at/bt
Input Voltage	AC100-240V 50/60HZ
	POE 48V1.25A 60W
Output	(Other Voltage can be customized)
Conversion Efficiency	≧85%
PoE Pin	RJ1245+ RJ3678-



Conversion Mode	Isolated
Data Rate	10M/100M/1000M Adaptive
Transmission Distance	100 meters
Surge Protection	6KV
	Short-circuit Protection
	Overcurrent Protection
C' 'A Day A'	Overvoltage Protection
Circuit Protection	Overheating Protection
	Anti-electric shock Protection
	Anti-electric leakage Protection
LED Indicator	1*Power Indicator
LED indicator	1*POE Indicator
	1*P+D/OUT Port
Interface	1*Data/IN Port
	1* AC Port
Material	ABS Plastic
Color	Black
Accessories	1*AC cable
EMC	IEC 61000-4-2/3/4/5/6
Tr.	-20∼60°C For Operating
Temperature	-30∼80°C For Storage
Humidity	RH95% MAX (Non-condensation)
W ' 14	N.W: 196g
Weight	G.W: 392g
	Product Dimension:
Dimension	147mm*65mm*43mm
Dillicusion	Packing Dimension:
	210mm*128mm*56mm
Package	Kraft Carton

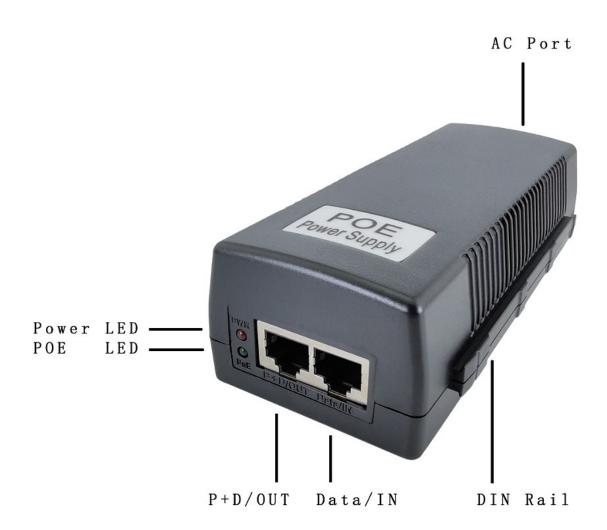
Product Applications

Dimensions



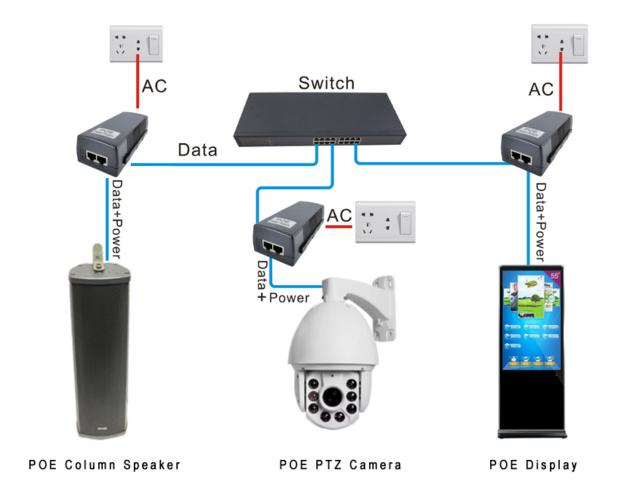


Interface Definition





Application topology





Application Scenarios





Product Detail



Product Package



Package Size:210mm*128mm*56mm (L*W*H)

Package List				
Items	Quantity			
PoE Injector	1			
AC Cable	1			
Operation Manual	1			