

IO-Power IOP-DPOE-PSP1248-OA Series

Outdoor DC to DC Power over Ethernet (PoE) Lightning Protection Converter 12V-18W / 24V-36W / 36V-54W / 48V-72W Passive & 48V-30W Standard Mode (To be completed with online 12~24VDC DC UPS Power System)



IO-Power DPOE-PSP1248-OA series are an outdoor DC to DC Power over Ethernet (PoE) Converter. To respond to outdoor DC UPS power system, the power source is from online outdoor DC UPS system or general 12~24VDC power adapter. Complete with DC to DC PoE, supplying power for the device through Ethernet cable (RJ-45). At the same time, it has the Ethernet cable data transmission ports, so it can transmit the data out of the device.

DC to DC PoE Converter is adopted industrial level of Iron metal thermal protection shell and waterproof dust reached IP67 of mechanism design and the Waterproof and heat-resistant beam head to handle the outside tough temperature at $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ to maintain the outdoor system normally working during day and

night.

IO-Power DPOE-PSP1248-OA series adopts the compatibility with IEEE 802.3af and IEEE 802.3at, in addition to supporting standard chip communication after the completion of the power over Ethernet (Standard PoE Mode), specially



designed to change jump Pin after to improve the design of the output power for power over Ethernet (Passive PoE Mode). The minimum output power is 12V-18W while the maximum output power is 48V-72W for those devices, which different output needs power through PoE. Applications are for outdoor wireless devices, outdoor surveillance system, outdoor emergency rescuing system, mobile power supply system, outdoor surveillance recording system, outdoor public sign and indication system, outdoor financial security system, elevator security monitoring system, fire security system, expressway charges trading surveillance system, etc.

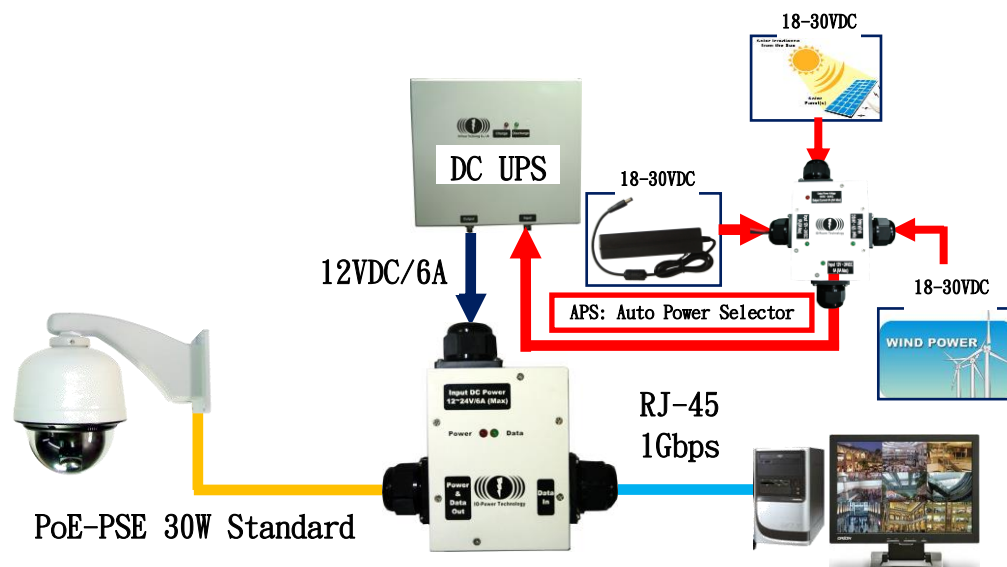
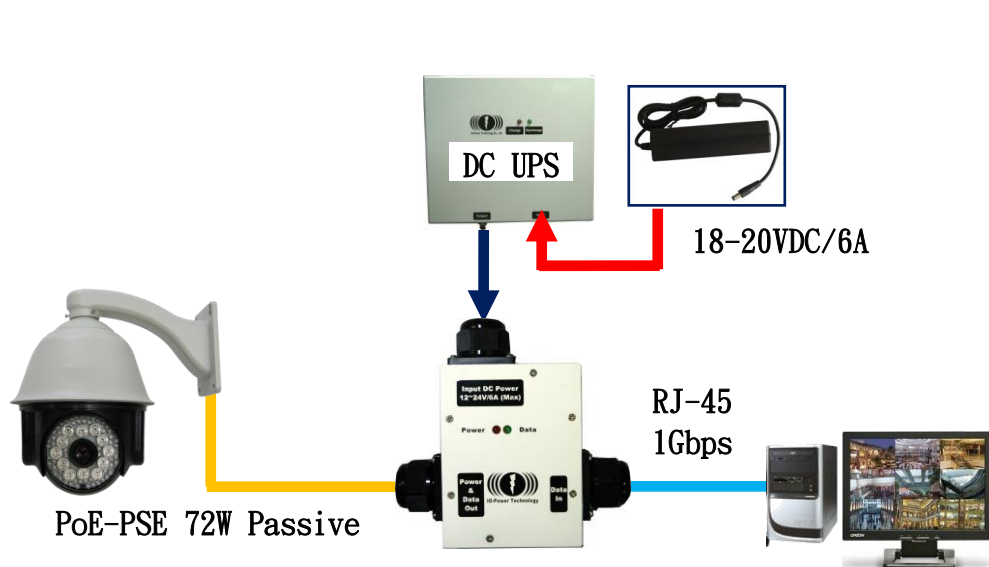
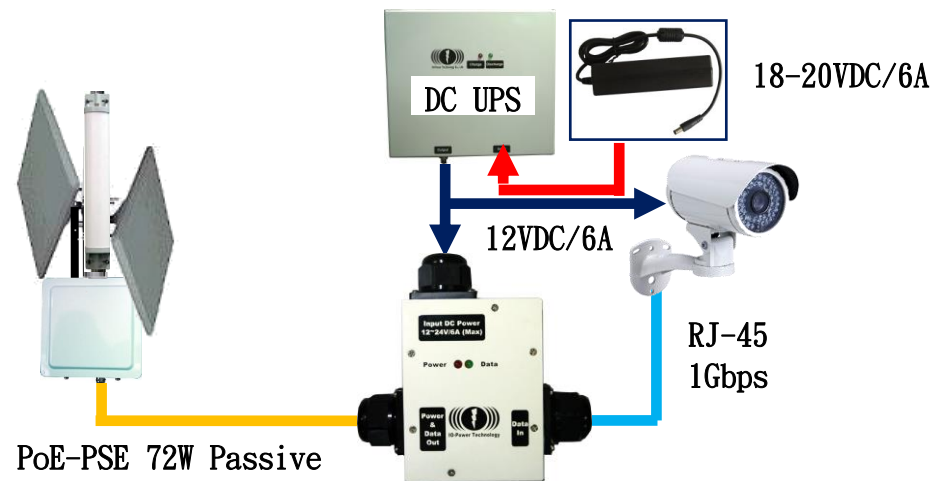
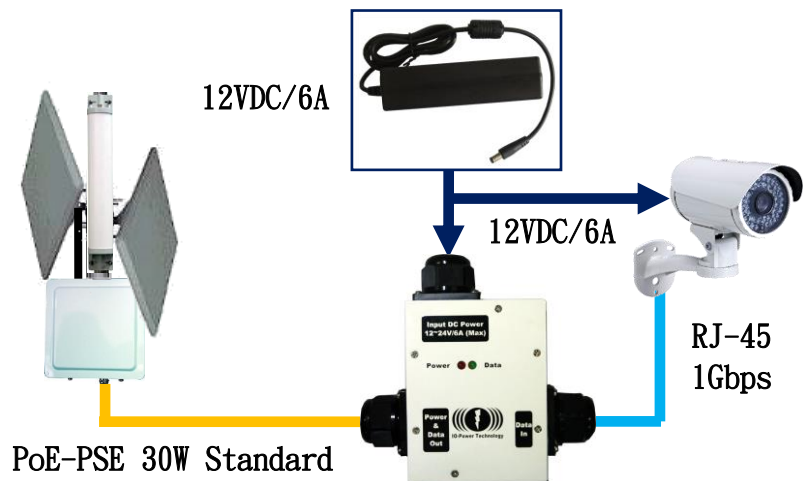
DC to DC Converter adopts IEEE 802.3at, standard 1000Mbps (1GiGa) bandwidth, automatically detecting the data transmission port. It can be applied for IEEE 802.3af 100Mbps Ethernet power supply port and IEEE 802.3at 1000Mbps Ethernet power supply port.

IO-Power DPOE-PSP1248-OA series uses 12~24V (09~28V) DC input power as its main designing originality, which is different from the general AC input power model, being able to complete with DC-required adapters or power supply system, for example, 12~24VDC adapters, 12~24VDC UPS systems, 12~24VDC solar UPS systems, 12~24VDC wind power UPS systems and general 12~24VDC UPS systems, and car cigarette lighter 12~24VDC vehicle power supply systems are applicable.


IO-Power DPOE-PSP1248-OA series can be as voltage booster and data splitter. When you input 12VD, it will boost up to 24VDC or 36VDC or 48VDC, 1.5A Max. The split Ethernet cable line No.4 & No.5 bundle as (+) and No.7 & No.8 bundle as (-). (No.4-Blue color line, No.5-White/blue color line, No.7-White/Brown color line, No.8- Brown color line)

In standard IEEE 802.3at Standard Power over Ethernet design load requirements (by chip communication protocols, and provides maximum 30W and 1Gbps bandwidth), IOP-DPOE-PSP1248-OA series can also gain adjustment offer corresponds to the IEEE 802.3at standard equipment needs.

Applications Diagrams



IOP-DPOE-PSP1248-OA Series Specification

Model Number	DPOE-PSP1218-1	DPOE-PSP2436-1	DPOE-PSP3654-1	DPOE-PSP4872-1	DPOE-PSP4830-1
	Through jump Jumper change Standard or Passive power operation power supply mode (Change the output voltage of 12VDC----72W)				
Outdoor PoE Passive Mode Iron Airtight Housing IP 67 (Housing mold processing)					
Input DC Voltage**	12~24VDC (28V Max)				
Input DC Current	12~24VDC 6A Max				
Output PoE DC Voltage	12VDC	24VDC	36VDC	48VDC	48VDC
Output DC Current	Standard PoE Mode: 0.6A Max Passive PoE Mode: 1A / Instant 1.5A Max				
Output Power Consume Watts	12W / Instant 18W Max	24W / Instant 36W Max	36W / Instant 54W Max	48W / Instant 72W Max	30W Max
Ethernet Pin Number	Standard PoE Mode: Power + Data Output PIN as 1~8 Passive PoE Mode: Power PIN as 4 & 5 (+) / 7 & 8 (-)				
Ethernet Compatible	Passive PoE Mode: Compatible with IEEE802.3 / 802.3u / 802.3af / 802.3at				



	Standard PoE Mode: Compatible with IEEE802.3 / 802.3u / 802.3af Standard / 802.3at Standard
Support Ethernet Bandwidth	Auto Detect 10/100/1000Mbps (1Gbps) Bandwidth
Ethernet Cable SPEC	RJ-45 Cat.5 / Cat.5e / Cat.6 / Cat.6e / Cat.6A / Cat.7~
Transform Efficiency	95%~
Protection	Automatic detection of Ethernet transmit bandwidth 10/100/1000Mbps Over discharge protection Input power over current protection Input power supply over voltage protection Imported power polarity protection for anti-welding DC Port anti-surge protection up to 600W The Ethernet Port provides a second lightning protection and surge protection, and the specification is increased to 10KA (10,000 amps) @ 8/20µs (2020 upgrade features)
Industrial Housing & Connector	Iron Airtight Housing IP 67 Gland Connector
Connector Type	Input DC Power: 9~28VDC Max DC Jack Female with LED Power + Data Output:RJ-45 Port with LED Data Input:RJ-45 Port
LED Indicator	1. Plug DC Jack, Input DC Power, Red LED Light 2. 802.3at Standard: RJ-45 Ethernet Cable Plug Into Power + Data Output Port, the Green LED Light 3. Passive Power: RJ-45 Ethernet Cable Plug Into Power + Data Output Port, the Green LED without Light
Operating Temperature	-40°C ~ +70°C (Use or storage at -40°C environment, please be sure to inform in advance, related accessories and wires should be replaced; Recommends that the equipment will be installed in the power distribution box)
Storage Temperature	-40°C ~ +70°C (Use or storage at -40°C environment, please be sure to inform in advance, related accessories and wires should be replaced; Recommends that the equipment will be installed in the power distribution box)
Rel. Humidity	10~95%RH



Dimension	155mm(L) x 152mm(W) x 42mm(H)
Weight	0.5Kg
Housing	IP67
Approvals	CE FCC
Installation	1.Street lamp pole mount or Upright pole mount 2.Wall mount installation
Warranty	24 months

**** Input 24VDC, can only output PoE 24V/36V/48VDC to power supply for device ****

Ps 1: Product specifications change, without notice, consultation with agent or dealer before buying the latest specifications