



IO-Power IOP-DPOE-PSP1248-OA Series

Outdoor DC to DC Power over Ethernet (PoE) 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, and especially to



design PoE Passive Converter for output power. The minimum output power is 18W while the maximum output power is 72W for those devices which need different output 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.

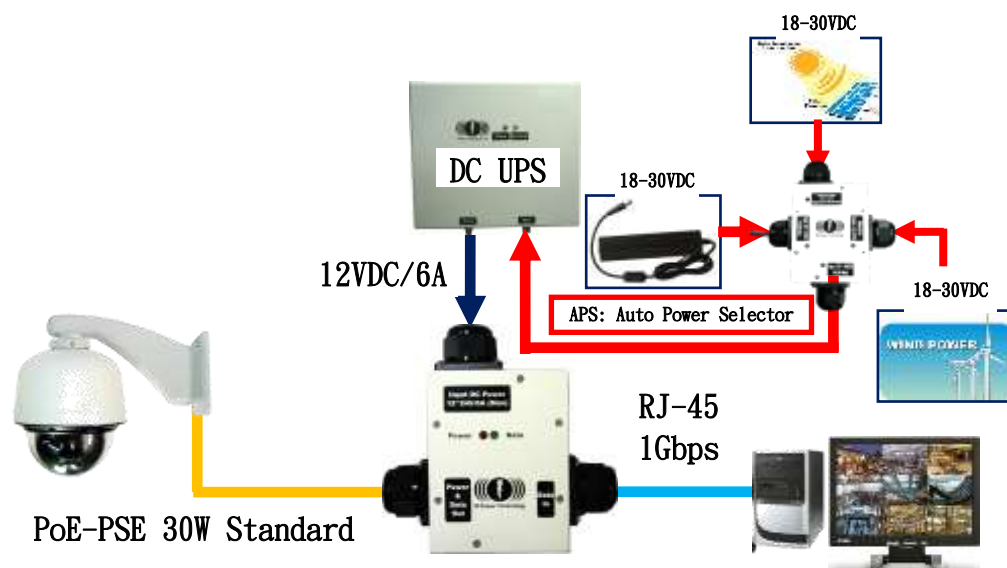
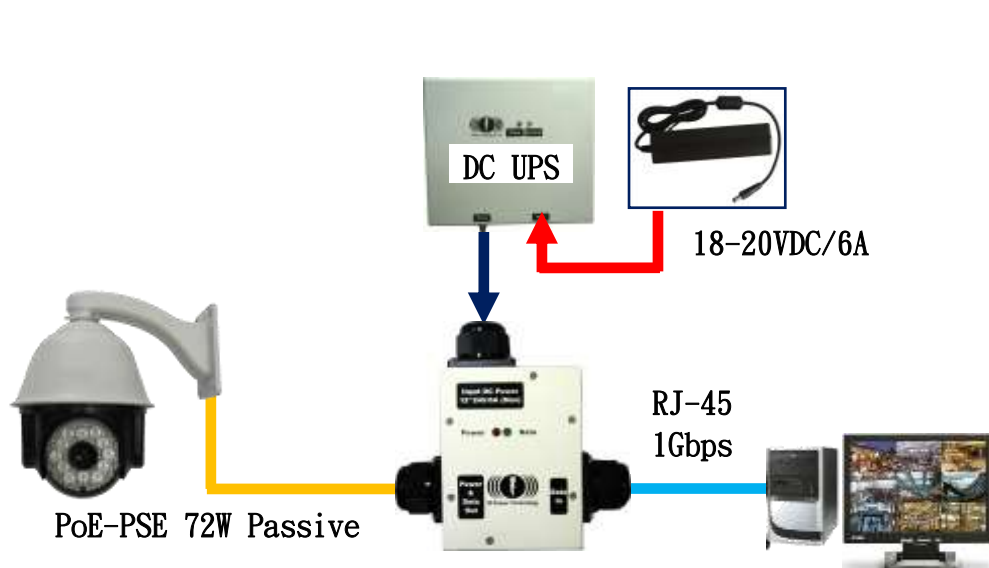
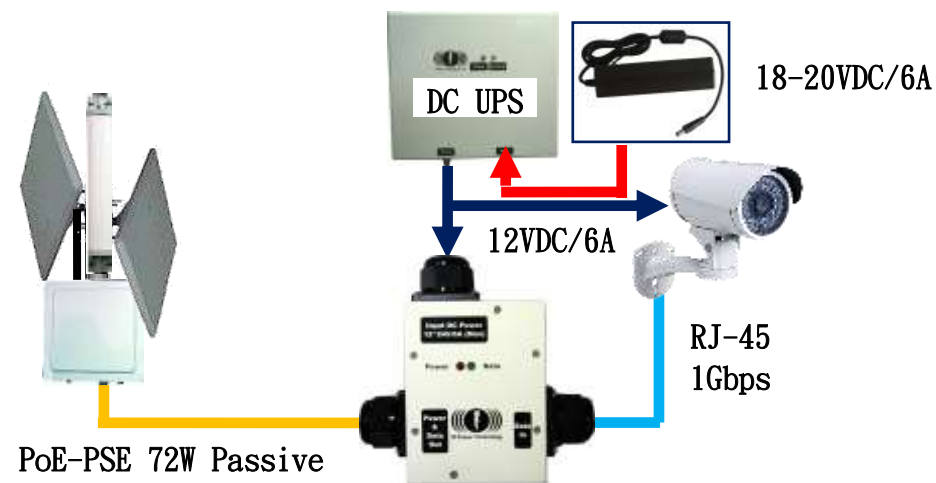
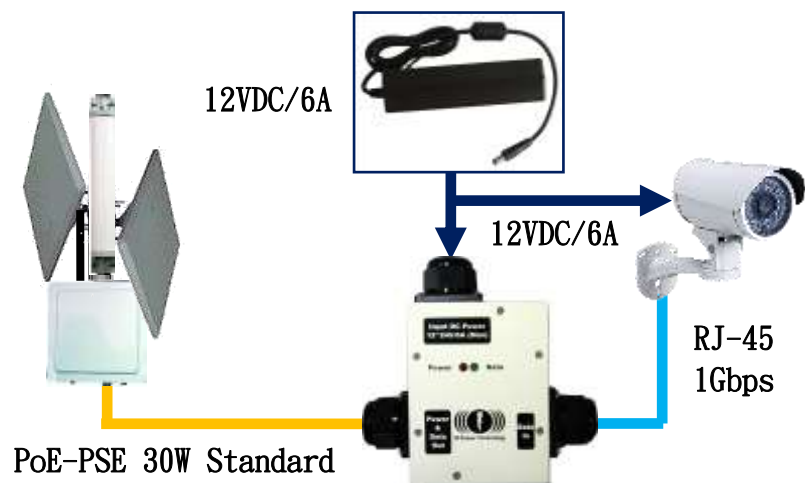
IO-Power DPOE-PSP1248-OA series uses 12~24V (09~28V) DC input power as its main designing originality, which is different from the general AC input power model, being able to complete with DC-required adapters or power supply system, for example, 12~24VDC adapters, 12~24VDC UPS systems, 12~24VDC solar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

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	IOP-DPOE-PSP1218-1	IOP-DPOE-PSP2436-1	IOP-DPOE-PSP3654-1	IOP-DPOE-PSP4872-1	IOP-DPOE-PSP4830-1
Outdoor PoE Passive Mode Iron Airtight Housing IP 67 (Housing mold processing)					
Input DC Voltage	12~24VDC (28V Max)	12~24VDC (28V Max)	12~24VDC (28V Max)	12~24VDC (28V Max)	12~24VDC (28V Max)
Input DC Current	12VDC 6A Max 24VDC 3A Max	12VDC 6A Max 24VDC 3A Max	12VDC 6A Max 24VDC 3A Max	12VDC 6A Max 24VDC 3A Max	12VDC 6A Max 24VDC 3A Max
Output PoE DC Voltage	12VDC	24VDC	36VDC	48VDC	48VDC
Output DC Current	1.5A Max	1.5A Max	1.5A Max	1.5A Max	0.6A Max
Output Power Consume Watts	18W Max	36W Max	54W Max	72W Max	30W Max
Ethernet Pin Number	Standard Mode: Power + Data Output PIN as 1~8 Passive Large Power Mode: Power PIN as 4 & 5 (+) / 7 & 8 (-)				
Ethernet Compatible	Compatible with IEEE802.3 / 802.3u / 802.3af / 802.3at PoE Passive				Compatible with IEEE802.3 / 802.3u / 802.3af / 802.3at PoE 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	Built-in MCU management Automatic detection of Ethernet transmit bandwidth 10/100/1000Mbps Over discharge protection Input power overcurrent protection Input power supply over voltage protection Imported power polarity protection for anti-welding
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)
Rel. Humidity	10~95%RH
Dimension	155mm(L)x152mm(W)x42mm(H)
Weight	0.5Kg
Housing	IP67
Approvals	CE FCC
Installation	1.Street lamp pole mount or Upright pole mount 2.Wall mount installation



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Warranty

12 months

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