

## IO-Power IOP-DPOE-PSP1248-OB Series

### Outdoor DC to DC Power over Ethernet (PoE) Lightning Protection Converter

12V-18W / 24V-36W / 36V-54W / 48V-72W Passive Mode

(To be completed with online 12~24VDC DC UPS Power System)



IO-Power DPOE-PSP1248-OB 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 and Vehicle 12V/24VDC car cigarette lighter power sources. 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-OB series is especially to design PoE Passive Converter for output power. The minimum



output power is 12V-18W while the maximum output power is 48V-72W for those devices that 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 parallel boost & buck power solution to direct power supply 12V/24V/36V/48V DC PoE , and direction support passive 1000Mbps (1GiGa) bandwidth. It could apply for passive 100Mbps Ethernet power supply port and passive 1000Mbps Ethernet power supply port.

IO-Power DPOE-PSP1248-OB 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-OB 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)

# IO-Power Vehicles Wireless Surveillance System of Multi Power Supply Solutions

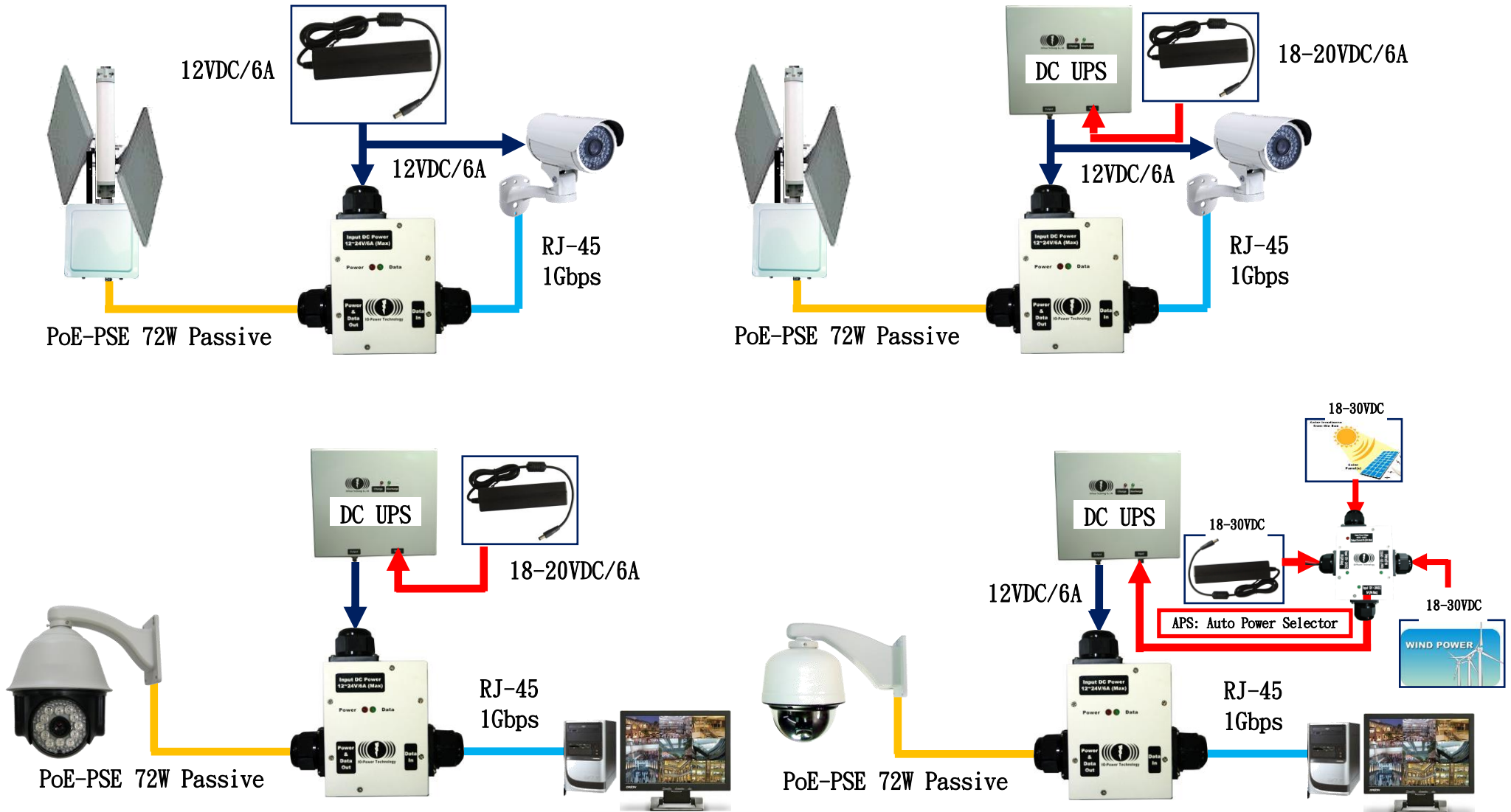
## Cars, Police cars, Ambulances and Engineering Emergency Treatment ...Use 12VDC Cigarette Lighter or Engine Power Supply Sources

### 1.12VDC to 48VDC PoE Power Supply for System


Applies to "mobile video surveillance", "vehicle-mounted wireless mobile surveillance system", "car license plate recognition system", "R&D project officer" used in this test.



# Ethernet network of PoE-PSE power supply terminal and application system diagrams



## IOP-DPOE-PSP1248-OB Series Specification

| Model Number  | DPOE-PSP1218-2  | DPOE-PSP2436-2        | DPOE-PSP3654-2        | DPOE-PSP4872-2        |
|---|---|-----------------------|-----------------------|-----------------------|
| Jump Jumper change output voltage   | Changing the output voltage by Jump jumper 12VDC-18W /24VDC-36W /36VDC-54W /48VDC-72W |                       |                       |                       |
| Outdoor PoE Passive Mode<br>Iron Airtight Housing<br>IP 67<br>(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                 |
| Output DC Current   | 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 |
| Ethernet Pin Number   | 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                    |                       |                       |                       |
| 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%~  |                       |                       |                       |



|   |  |
|---|--|
| <b>Protection</b>                         | Ethernet transmit bandwidth 10/100/1000Mbps<br>Over discharge protection<br>Input power over current protection<br>Input power supply over voltage protection<br>Imported power polarity protection for anti-welding<br>DC Port anti-surge protection up to 600W<br>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) |
| <b>Industrial Housing &amp; Connector</b> | Iron Airtight Housing<br>IP 67 Gland Connector   |
| <b>Connector Type</b>                     | Input DC Power: 9~28VDC Max DC Jack Female with LED<br>Power + Data Output:RJ-45 Port with LED<br>Data Input:RJ-45 Port  |
| <b>LED Indicator</b>                      | 1. Plug DC Jack, Input DC Power, Red LED Light<br>2. Passive Power: RJ-45 Ethernet Cable Plug Into Power + Data Output Port, the Green LED without Light   |
| <b>Operating Temperature</b>              | -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)  |
| <b>Storage Temperature</b>                | -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)  |
| <b>Rel. Humidity</b>                      | 10~95%RH   |
| <b>Dimension</b>                          | 155mm(L)x152mm(W)x42mm(H)  |
| <b>Weight</b>                             | 0.5Kg  |
| <b>Housing</b>                            | IP67   |
| <b>Approvals</b>                          | CE FCC   |
| <b>Installation</b>                       | 1.Street lamp pole mount or Upright pole mount 2.Wall mount installation   |



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**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**