

**Power and Data on the Same Cat. Cable, Single-Port**
**Mid-Span PSE/PoE Injector**
**Key Features**

- ✦ Complies with Isolation and Channel of IEEE802.3af
- ✦ Full Protection with OCP, OVP
- ✦ Power & LAN on the same Cat. 5 cable
- ✦ Full-positioned LED to indicate status
- ✦ Non-vented mini case


**Introduction**

OM-PSU-P is an IEEE802.3af compliant mid-span single-port Power over Ethernet (PoE) injector used to pass electrical power safely, along with data, on Ethernet cabling to Powered (PD) devices. The IEEE standard for PoE requires category 5 cable or higher for high power levels, but can operate with category 3 cable for low power levels. Power is supplied in common mode over two of the differential pairs(4,5,7,8) and data is passed through on the other two of the twisted pairs(1,2,3,6).

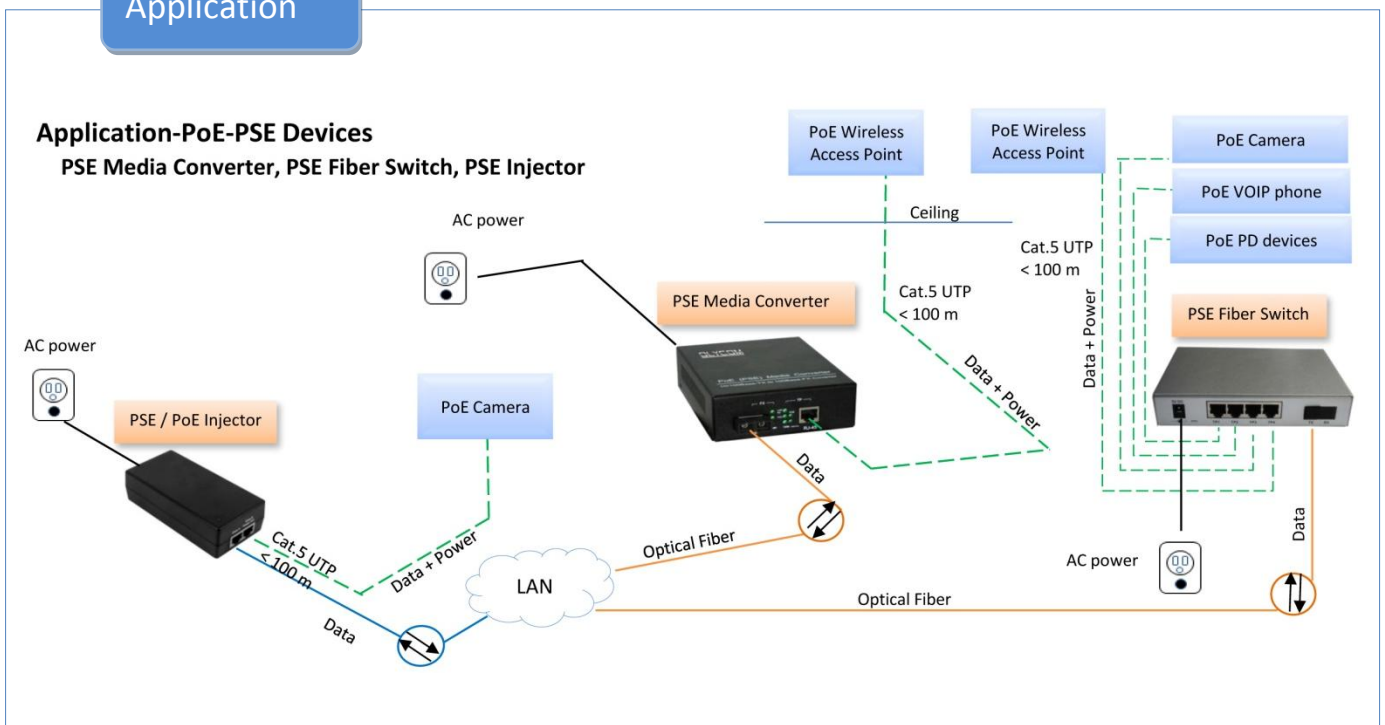
**Specification**

| <b>Output Power</b>              |                                                            |
|----------------------------------|------------------------------------------------------------|
| DC Output Voltage                | 50                                                         |
| Load                             | Min. 0.0A Max. 1.0A                                        |
| Regulation                       | Line/ Load $\pm 4\%$                                       |
| Ripple And Noise                 | 0.5 Vp-p                                                   |
| Total Output Power               | 56W                                                        |
| Efficiency                       | 80% (typical) at Max. load, and 120VAC 60Hz                |
| Hold-up Time                     | 16mS min. 120VAC and max. load                             |
| O/P Voltage Protection           | 60V max. at switch on and off at any AC line Phase         |
| <b>Input Power</b>               |                                                            |
| AC Input Voltage Range           | 90 to 264VAC                                               |
| AC Input Voltage Rating          | 100 to 240VAC                                              |
| AC Input Current                 | 0.5A(RMS) max. for 90VAC, 0.35A(RMS) max. for 240VAC       |
| Leakage Current                  | 0.25mA max. @ 254VAC 60Hz                                  |
| AC Input Frequency               | 47-63Hz                                                    |
| AC Inrush Current                | 15A(RMS) max. for 115VAC, 20A(RMS) max. for 230VAC         |
| <b>Environmental. Mechanical</b> |                                                            |
| Operating temperature            | 0°C ~ +40°C                                                |
| Storage temperature              | -20°C ~ +65°C                                              |
| Humidity                         | 5~95%non-condensing                                        |
| Input Connector                  | IEC320 inlet 3 pin                                         |
| Data Connector                   | RJ45 +56V pins4&5, Power Return pins7&8                    |
| Indicator                        | LED indicator for power, turns on & green when power is on |
| <b>Interface. Indicator</b>      |                                                            |
| Input Connector                  | IEC320 inlet 3 pin                                         |
| Data Connector                   | RJ45 +56V pins4&5, Power Return pins7&8                    |
| Indicator                        | LED indicator for power, turns on when power is on         |

Standards

| EMC                   |                                      |
|-----------------------|--------------------------------------|
| EMC                   | FCC Part 15 Class B, EN55022 Class B |
| Isolation Test        |                                      |
| Primary to Secondary  | 3000VAC for 1 minute 10mA            |
| Primary to F.G.       | 1500VAC for 1 minute                 |
| Output to F.G.        | <1%                                  |
| 1500VAC               | 1500VAC                              |
| Immunity EN50082-1    |                                      |
| ESD                   | EN61000-4-2. Level 3                 |
| RS                    | EN61000-4-3. Level 2                 |
| EFT                   | EN61000-4-4. Level 2                 |
| Surge                 | EN61000-4-5. Level 3                 |
| CS                    | EN61000-4-6. Level 2                 |
| Voltage Dips          | EN61000-4-11                         |
| Harmonic              | EN61000-3-2                          |
| Insulation Resistance |                                      |
| Primary to Secondary  | >10M OHM 500VDC                      |
| Primary to FC         | >10M OHM 500VDC                      |

Application



Ordering Details

OM-PSU-P-48V      Single-Port Mid-Span PSE/PoE Injector, 100Mbps, 220VAC in -48VDC out, 50W

\*Above listed is the most frequently ordered item. Please contact us for other configurations.