

## DC Input Outdoor POE Series

## 1 Amp POE Injector Power Supply



### PRODUCT DESCRIPTION

The DC Input / Outdoor POE Series are Power-over-Ethernet (PoE) power supplies with integral DC Injector. They provide 1 Amp of 48V or 55V DC power f10/100 Base-T transformers for connection to an IEEE 802.3 (10/100 Base-T) compatible device. An output RJ45 connector provides the 10/100 Base-T data and 55V or other voltages for connection to the wireless modem.

- 1 Amp of 48 or 55 VDC Power
- 10.5~32VDC INput Range
- Option for easy installation on wall
- Compact size – 160 x 63 x 32 mm
- High efficiency – free convection cooling
- Full output protection OCP, SC, OVP
- Meets FCC 15 & EN55022 class B requirements
- Operating temperature range -5°C to +45°C with no derating
- CE, UL & CSA ,CCC approved

### INPUT

|                  |                         |
|------------------|-------------------------|
| DC Input Voltage | 10.5~32VDC              |
| Inrush Current   | <100A (Max Cold Start)  |
| Input Connector  | Wire, stripped & tinned |
| Efficiency       | 76% Minimum             |

### OUTPUT

|                          |                                |
|--------------------------|--------------------------------|
| Output                   | 55VDC / 1.00 Amp Max           |
| Regulation               | ± 2% max Line & Load           |
| Over-Voltage Protection  | 110-125% (recycle AC to reset) |
| Ripple @ Noise (V1)      | 1% pk-pk max (20MHz)           |
| Over Current Protection  | 115-150% (auto-recovery)       |
| Short Circuit Protection | Continuous                     |

### ENVIRONMENTAL

|                       |                      |
|-----------------------|----------------------|
| Operation Temperature | -40 ~ +70C Full Load |
| Storage Temperature   | -40 ~ +85C           |
| Cooling               | Convection           |
| Humidity              | <95% Non-Condensing  |

### ELECTROMAGNETIC COMPATIBILITY

|                         |  |
|-------------------------|--|
| Electrostatic Discharge | EN61000-4-2, ±4KV Contact / ±8KV Air       |
| Radiated Susceptibility | EN61000-4-3, 26-1000MHz, 10V/M, 80% AM     |
| EFT / Bursts            | EN61000-4-4, ±2KV                          |
| Surges                  | EN61000-4-5, ±2KVLine-Earth, ±1KVLine-Line |
| Conducted Immunity      | EN61000-4-6, 0.15-800MHz, 10V, 80% AM      |
| Voltage Dips            | EN61000-4-11, 95%Dip&10ms, 30%Dip&500ms    |
| Voltage Interruptions   | EN61000-4-11, 95% Reduction, 5s            |
| Fluctuations & Flicker  | EN61000-3-3                                |
| Harmonics               | EN61000-3-2 Level A                        |

### SAFETY & EMISSIONS

|                  |  |
|------------------|--|
| Safety Approvals | UL/cUL 60950, EN60950, CE Mark (LVD)<br>AS/NZS 3260  |
| EN55022          | Class B Rated  |
| ETSI             | EN 301 489-1, V1.4.1 (2002-08)<br>EN301489-4 V1.3.1 (2002-08)<br>EN301-489-17 V1.2.1 (2008-08) |

## Outdoor POE Series

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#### Power Modules

| Model     | Input      | Output Power | Output Voltage | Output Current |
|-----------|------------|--------------|----------------|----------------|
| 0526D4848 | 10.5-32VDC | 48 Watts     | 48V            | 1.00A          |
| 0526D5555 | 10.5-32VDC | 55 Watts     | 55v            | 1.00A          |

#### Outputs Connection

| RADIO-RJ-45 | Ethernet RJ-45 |
|-------------|----------------|
| Pin 1, Data | Pin 1, Data    |
| Pin 2, Data | Pin 2, Data    |
| Pin 3, Data | Pin 3, Data    |
| Pin 4, +48V | Pin 4, N.C     |
| Pin 5, -48V | Pin 5, N.C     |
| Pin 6, Data | Pin 6, Data    |
| Pin 7, +48V | Pin 7, N.C     |
| Pin 8, -48V | Pin 8, N.C     |

Revision A: 01/29/09 All specifications subject to change. Please consult Digital Power for latest specifications.

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