55 Watt Power Over Ethernet DC/DC Outdoor Adapter - 0526D5555

The 0526D5555 is a DC/DC Outdoor P.O.E (Power Over Ethernet) combined data and power adapter that interfaces to the customer's wireless modem and other Link and Net outdoor products. The unit provides an RJ-45 input connector, that includes 10/100 Base-T transformers for connection to an IEEE 802.3 (10/100 Base-T) compatible device. The unit receives power from DC 10.5V to 32V using 3 open wires cable. An output RJ45 connector provides the 10/100 Base-T data and 55V or other voltages for connection to the wireless modem.

Main Features

- Operation Temperature range -40°C to +70°C with no derating
- Option for easy installation on wall
- Compact size – 200 x 80 x 43 mm
- High efficiency – free convection cooling
- Wide-range input voltage covering 12V and 24V DC inputs
- Full output protection OCP. SC. OVP
- Meets FCC 15 & EN55022 class B requirements
- CE, UL & CSA ,CCC approved
- Metal case

Typical Applications

- DC input 12V or 24V Outdoor Power Over Ethernet
- Fast data modems
- Wireless modems
- 10/100 Base-T systems
- Video / Data / Voice modems

Main Specifications
Input

- DC input 10.5 to 32V (wide range)
- Input inrush current 100A@ cold start
- Input reflected ripple per FCC part 15 class B
- Input cable 3 poles open wires cable

Output

- Output voltage: 55VDC
- Output current: 0 – 1 A
- Efficiency: 76% minimum
- Voltage regulation - ±2% Max. For load and line variation
- Temperature coefficient – 0.05% / C max
- Voltage set point – Internal trim-pot ±5%
- Hold-up time – 10 m Sec minimum at full load including 100V input
- Isolation – input/output, input/case >500VAC
- Protection – output protected against overload, short-circuit and over voltage
- Surge protection – on outputs DC and data lines

Environmental

- Operation temperature range -40°C to +70°C
- Storage temperature range -40°C to +80°C
- EMI / RFI – Meets EN55022 class B requirements & IEC-1000 requirements.
- MTBF – Higher than 200,000 hours

Safety & EMC

- **Safety referring Standards:**
  - UL/CUL UL1950-1
  - CE EN 60950-1
  - AS/NZS AS/NZS 3260

- **EMC referring Standards:**
  - ETSI EN 301 489-1 V1.4.1 (2002-08)
  - ETSI EN 301 489-4 V1.3.1 (2002-08)
  - ETSI EN 301 489-17 V1.2.1 (2002-08)

- **Emission**
  - FCC Part 15, class B.
  - CE (Radiated & Conducted Emission) EN55022 Class B
  - Harmonic EN61000-3-2
  - Voltage Fluctuation EN61000-3-3
  - VCCI Level 2
  - AS/NZS AS/NZS 3548

- **Immunity**
    - **ESD**
      EN61000-4-2
    - **Radiated Immunity**
      EN61000-4-3
    - **EFT**
      EN61000-4-4
    - **Surges**
      EN61000-4-5 Class 3
    - **Voltage tips, short interruption**
      EN61000-4-11

Mechanical

- Size – 160 L x 63 W x 32 H mm
- Weight – 200gr. Max
- Cooling – free convection
- Input DC –3 poles open wires cable 45 cm

Reliability

- **MTBF**
  200,000 Power On Hours at 55W load and 45°C environment, computed according to MIL-HDBK-217F, Ground Fixed conditions, using the parts stress method

- **Burn-In**
  100% Burn-In with 80-100% load & 45°C environment temperature for 48 hours minimum

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, +55V	Pin 4, N.C
Pin 5, -55V	Pin 5, N.C
Pin 6, Data	Pin 6, Data
Pin 7, +55V	Pin 7, N.C
Pin 8, -55V	Pin 8, N.C

Ethernet data lines are connected through a 10/100 Base-T internal transformer

Warranty

Two (2) years manufacture's warranty