



55 Watt Power Over Ethernet AC/DC Outdoor Adapter - 0525B5555

The 0525B5555 is a 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 100V to 240V using an industry standard IEC320C14 connector. 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 – 160 x 63 x 32 mm
- High efficiency – free convection cooling
- Wide-range input voltage covering worldwide requirements
- Full output protection OCP. SC. OVP
- Meets FCC 15 & EN55022 class B requirements
- CE, UL & CSA ,CCC approved

Typical Applications

- Outdoor Power Over Ethernet
- Fast data modems
- Wireless modems
- 10/100 Base-T systems
- Video / Data / Voice modems

Main Specifications

Input

- 90 to 265VAC (wide range)
- Input frequency 47 – 63Hz
- Input inrush current 50A@ cold start
- Input reflected ripple per FCC part 15 & EN55022 class B
- Input cable 3 poles , IEC320C14

Output

- Output voltage: 55VDC
Output current: 0 – 1 A
Efficiency: 85% minimum
- Voltage regulation - $\pm 2\%$ Max. For load and line variation
- Temperature coefficient – 0.05% / C max
- Voltage set point – Internal trim-pot $\pm 5\%$
- Hold-up time – 10 m Sec minimum at full load including 100V input
- Isolation – input/output, input/case >3000VAC
- Protection – output protected against overload, short-circuit and over voltage
- Surge protection – on DC and data lines

Environmental

- Operation temperature range -40°C to $+70^{\circ}\text{C}$
- Storage temperature range -40°C to $+80^{\circ}\text{C}$
- 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 AC – 3 pin AC inlet IEC320C14 (cable not included)

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 8 hours minimum

Outputs Connection

RADIO-RJ-45

Pin 1, Data
Pin 2, Data
Pin 3, Data
Pin 4, +55V
Pin 5, + 55V
Pin 6, Data
Pin 7, -55V
Pin 8, -55V

Ethernet RJ-45

Pin 1, Data
Pin 2, Data
Pin 3, Data
Pin 4, N.C
Pin 5, N.C
Pin 6, Data
Pin 7, N.C
Pin 8, N.C

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

Warranty

Two (2) years manufacture's warranty

