

RPM-POE-INJ-DC

Industrial Grade DC-DC Power-over-Ethernet (PoE) Power Injector

The Redline industrial grade PoE power injector is specifically designed for deployment of RDL-3000 wireless systems in the harsh industrial environment of underserved, off-grid and isolated locations reliant primarily on reliable DC power.

Purpose-built to meet the tough operating conditions of oil & gas, military, and utility applications, Redline's PoE power-sourcing equipment (PSE) unit supports 12 / 24 / 48 VDC power systems.

The durable aluminum shell, high quality connectors, and proven electrical design guarantee reliable operation under the most demanding operating conditions.

FEATURES AND BENEFITS

- Reliable operation for sites where the primary or preferred power source is DC (solar panels/battery)
- Power options (e.g. A/B battery banks)
- Supports negative supply operation with TELCO -48 VDC wiring for communications and power panels
- Deploy with any compatible PoE powered device (PD) including IP cameras, IP access controls, and wireless access points (AP)

PRODUCT COMPLEMENTS

The Redline PoE is fully compatible with all Redline RDL-3000 family base stations and wireless terminals.

UNIFIED GLOBAL SOLUTIONS

Redline's patented UWT™ technology provides a truly unified wireless networking solution—across the spectrum, across your company and across the globe—enabling secure, reliable, high-speed connectivity to people and smart devices everywhere.



SYSTEM AT A GLANCE

Industrial PoE compatible with all RDL-3000 wireless systems

Compact footprint with hardened aluminum shell

10/100/1000 Base-T Ethernet IEEE 802.3at/af compliant

-40 to 75 °C operating temperature using dynamic and thermal dissipation (no moving parts)

10 to 60 VDC input range with redundant DC inputs

Transient voltage suppression for all input/output connections

DIN rail

PoE SPECIFICATIONS

Interfaces	1x Terminal block (screw down): DC power input, redundant DC power input 2x RJ-45(f) shielded ports: Ethernet, PoE 2x LED Indicators: Power, at/af mode, over-load, short-circuit, input voltage out-of-range, over-temperature
Network Connection	10/100/1000 Base-T Ethernet (RJ-45)
Interoperability	Type 2 – Supply 25 W over two pairs
Input Voltage	10 to 60 VDC
Input Power Cabling	12 to 16 AWG solid or stranded wire
Input Voltage Protection	Over-voltage and reverse polarity
Input to Output Isolation	2121 VDC min; 1500 VAC min
PoE Powering Schemes	Alternative B – Pairs 4/5 & 7/8
PoE Output Voltage	52 VDC +/- 3%
PoE Output Power	25 Watts
PoE Surge Protection	Ethernet: all wires
Management	Unmanaged
Operating Temp	-40 to 75 °C (-40 to 167 °F)
Humidity	5 to 95% non-condensing
Enclosure	Aluminum IP-40 (1 mm objects)
Power Consumption	>80% efficiency @ 21°C (71° F)

All specifications are subject to change without notice.

1. Availability restricted by regional regulations or product options

Compliance

Safety¹: CSA/UL C22.2 60950 to +75° C (167° F)

EMI: FCC Part 15 Subpart B Class A, EN 55022 CISPR22 Class A

EMS: EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8

Shock¹: IEC 60068-2-27

Freefall¹: IEC 60068-2-32

Vibration¹: IEC 60068-2-6

Hazardous locations¹: UL1604,

CSA C22.2/213 (Class I, Div. 2); EN60079-15 (Zone 2; Category 3), CE (ATEX)

PoE: 802.3u 100BaseTX, 02.3af / 802.3at



Physical Attributes

Dimensions

111.5 x 32.5 x 137 mm (4.39 x 1.28 x 5.40 in)

Weight

360 g (0.8 lbs)

Mount

DIN (35 mm)

DRAWINGS

