

## RPM-POE-INJ-DS

### 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

10/100Base-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, panel or wall mount

## PoE SPECIFICATIONS

<b>Interfaces</b>	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
<b>Network Connection</b>	10/100Base-T Ethernet (RJ-45)
<b>Interoperability</b>	Type 2 – Supply 30 W over two pairs
<b>Input Voltage</b>	10 to 60 VDC
<b>Input Power Cabling</b>	12 to 16 AWG solid or stranded wire
<b>Input Voltage Protection</b>	Over-voltage and reverse polarity
<b>Input to Output Isolation</b>	2121 VDC min; 1500 VAC min
<b>PoE Powering Schemes</b>	Alternative B – Pairs 4/5 & 7/8
<b>PoE Output Voltage</b>	52 VDC +/- 3%
<b>PoE Output Power</b>	30 Watts max. (25 Watts @ 12 VDC input)
<b>PoE Surge Protection</b>	Ethernet: all wires
<b>Management</b>	Unmanaged
<b>Operating Temp</b>	-40 to 75 °C (-40 to 167 °F)
<b>Humidity</b>	5 to 95% non-condensing
<b>Enclosure</b>	Aluminum IP-40 (1 mm objects)
<b>Power Consumption</b>	>80% efficiency @ 21°C (71° F)

All specifications are subject to change without notice.

1. Availability restricted by regional regulations or product options

## Compliance

Safety<sup>1</sup>: 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

Shock<sup>1</sup>: IEC 60068-2-27

Freefall<sup>1</sup>: IEC 60068-2-32

Vibration<sup>1</sup>: IEC 60068-2-6

Hazardous locations<sup>1</sup>: 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)

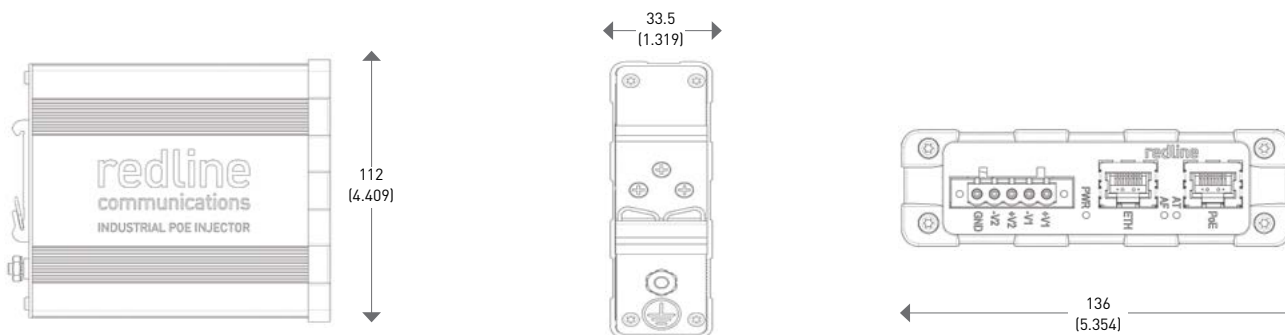
### Weight

360 g (0.8 lbs)

## Model

PS-DCDC-POE-IND-01

## DRAWINGS



Dimensions are in millimeters (inches)