

# DC/DC PoE for ME5/ES1

## Outdoor DC to DC 24V PoE Injector

Rajant's **DC/DC PoE Injector** is an outdoor rated PoE injector/midspan specially designed for exterior, complex backhaul and networking applications.

### DC/DC PoE Key Features:

- 12 - 24Vdc input voltage ideal for solar application
- Output voltage is fixed at 24V
- Wide temperature range of -40°C to +65°C
- Output port will directly power PDs without detecting
- Easy installation with mounting holes
- Can be attached to a pole with stainless-steel cable ties



Model	Part Number	Description
DC/DC PoE	25-100195-001	PoE injector, 12-24Vin, 24Vout, 30W, 2-pair ALTB, Gigabit Ethernet, Outdoor IP67 for ME5/ES1

Power Specifications	
DC Input Voltage	12 - 24VDC @ 4A
DC Input Connector	Removable Screw Type Compression Wire Terminal, 2 Pin (12 AWG Max)
PoE Specification	Passive ( 4-Wire / 2-Pair / Mode B) 4/5+ 7/8-
Output Voltage	24VDC
Output Current (max)	1.25A Total
Output Power (max)	30W Total
Data in & Data/POE Output Connector	RJ45 (Shielded)
Data Rate	10/100/1000 Mbps
Surge Protection	All lines 1-8
Common Mode Surge	6kV (10/700us)
Differential Mode Surge	1.5kV (10/700us)

## Standard Compliance

<b>EMI</b>	FCC CFR47 Part 15, EN55032/EN55035/EN61000-3-2/3
<b>EMS</b>	IEC61000-4-2/3/4/5/6
<b>Environmental Immunity</b>	IEC60068-2-6/27/32
<b>Safety</b>	FCC, CE IEC60950-1 LVD
<b>RoHS</b>	Compliant
<b>WEEE</b>	Compliant

## Environment

<b>Operating Temperature</b>	-40 to +65°C (-40 to +149°F)
<b>Operating Humidity</b>	20% - 80% (non-condensing)
<b>Storage Temperature</b>	-40 to +85°C (-40 to +185°F)
<b>Storage Humidity</b>	10% to 95% (non-condensing)
<b>Operating Altitude</b>	5000m
<b>Ingress Protection</b>	IP67

## Mechanical

<b>Dimensions (LxWxH)</b>	187 x 105 x 45mm (7.36 x 4.13 x 1.77")
<b>Weight</b>	565g (1.25lbs)
<b>Case Material</b>	Aluminum painted white
<b>Mounting</b>	Wall mounting with screws or pole-mounted with hose-clamps
<b>Cable Glands</b>	M22 size (or PG16 type equivalent)
<b>Cable sealing gaskets</b>	(3) 6mm non-cut installed, (3) 6mm pre-cut loose (5-7mm cable dia) (3) 8mm non-cut loose, (3) 8mm pre-cut loose (7-9mm cable dia)

## I/O Ports

1. DC PWR Input, 2-pin terminal
2. PoE Data and Power Output, RJ45
3. LAN Data Input, RJ45

## LAN Input 3

Pin	Symbol	Description
1	DA+	Data Pair A+
2	DA-	Data Pair A-
3	DB+	Data Pair B+
4	DC+	Data Pair C+
5	DC-	Data Pair C-
6	DB-	Data Pair B-
7	DD+	Data Pair D+
8	DD-	Data Pair D-



## PoE Data Output 2 (Mode B)

Pin	Symbol	Description	PoE
1	DA+	Data Pair A+	NA
2	DA-	Data Pair A-	NA
3	DB+	Data Pair B+	NA
4	DC+, Vo+	Data Pair C+	PoE+
5	DC-, Vo+	Data Pair C-	PoE+
6	DB-	Data Pair B-	NA
7	DD+, Vo-	Data Pair D+	PoE-
8	DD-, Vo-	Data Pair D-	PoE-

## Power Input 1

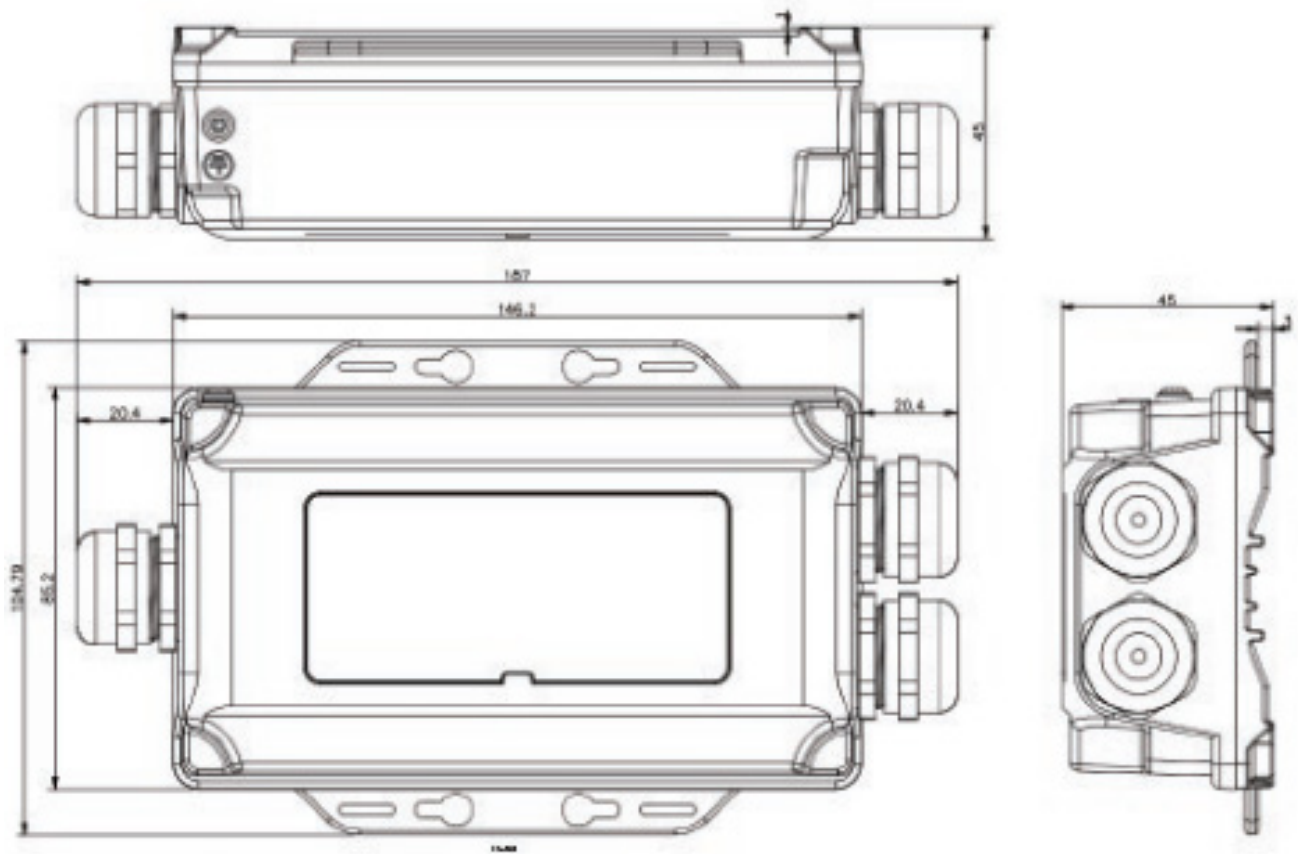
2-pin DC pwr: V+, V-

V+ is closest to the Ground screw terminal side



**Installation note:** Always connect the PoE case ground terminal wire to a Chassis or Earth ground during installation to protect the device.

## Dimensions: (mm)



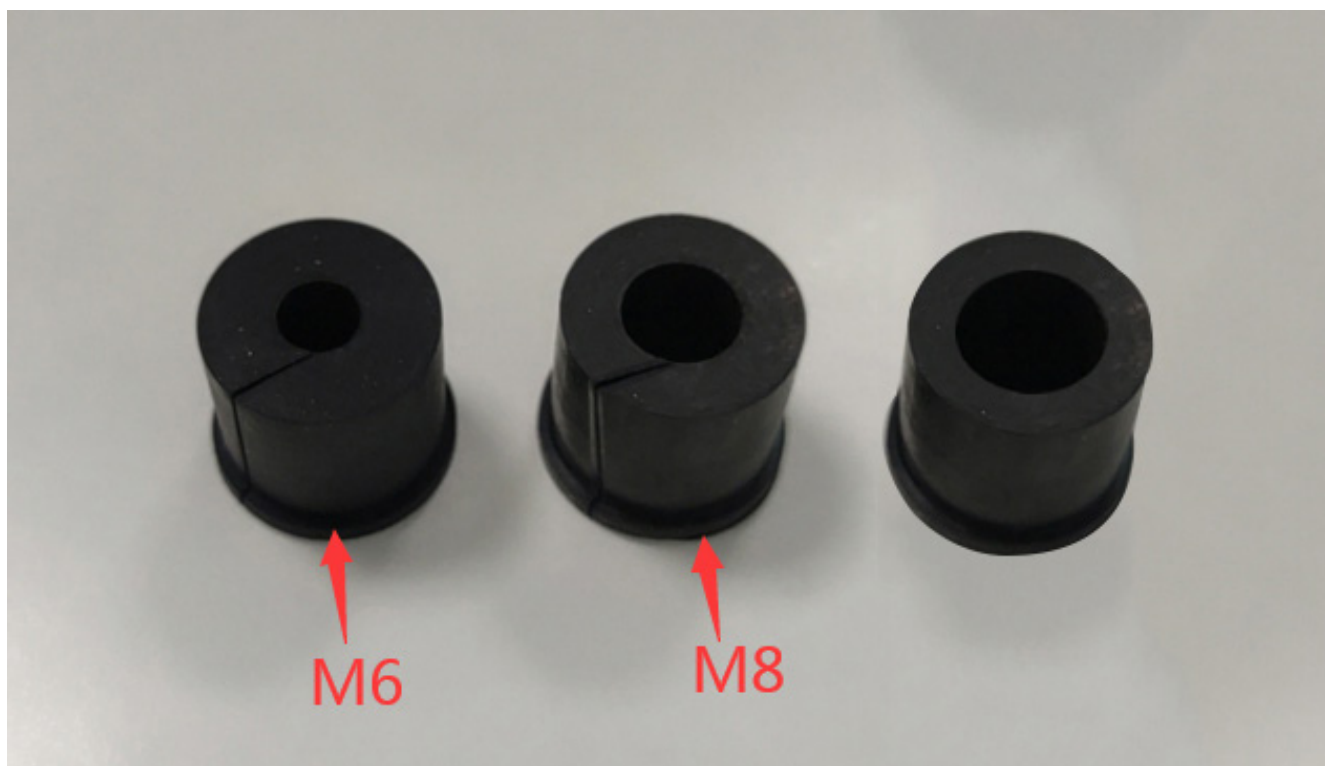
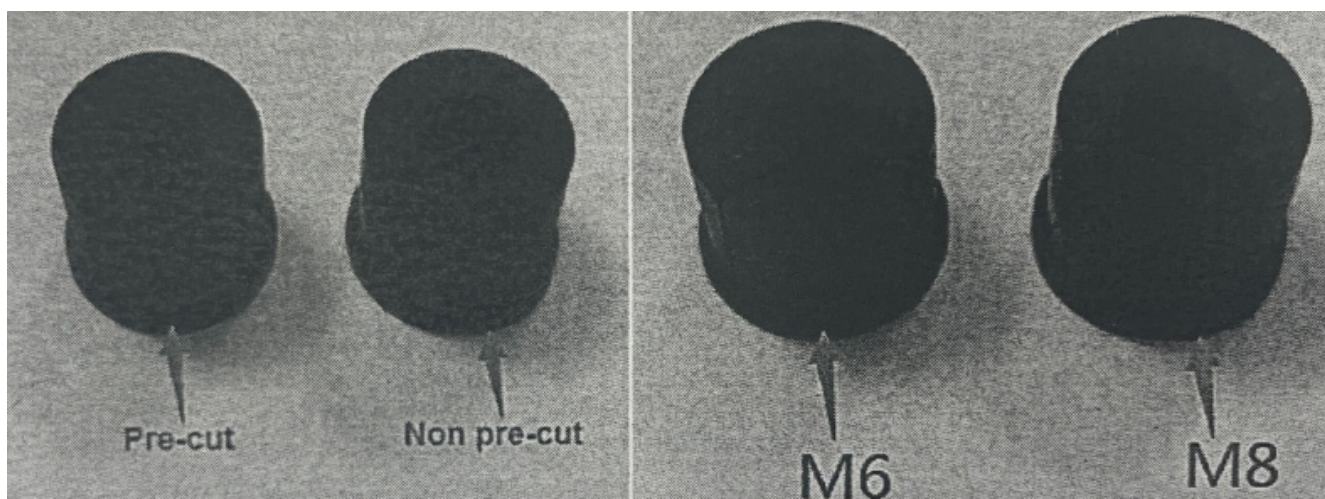
## Mounting





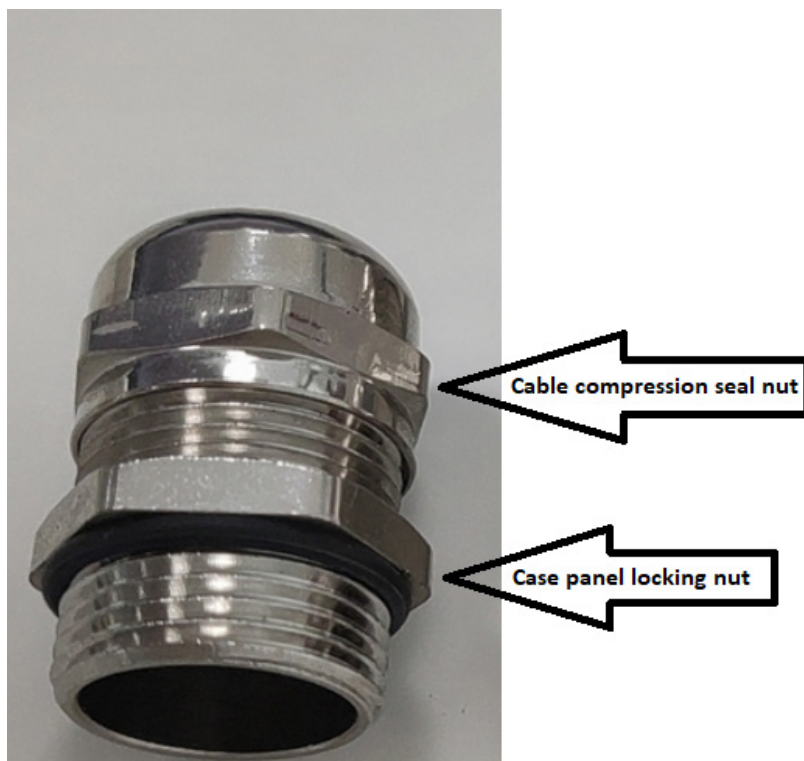
**Cable Seals: (must be used for IP)**

- Pre-cut seals are for existing machine crimped RJ45 cables
- Non-cut seals are for hand-crimped RJ45 cables terminated in the field
- 6mm dia seals are for 5-8mm nominal dia cable
- 8mm dia seals are for 7-9mm nominal dia cable
- (3) of each type provided in each box



### Cable Gland Torque: (must be applied during installation for IP)

- Must apply specified torque for IP67 use
- Cable Glands are M22 size (or PG16 type equivalent)
- Panel locking nut to case: 19-21 kgf/cm (18 in-lbs)
- 8mm dia seals are for 7-9mm nominal dia cable
- Compression sealing nut to gland: 23-25 kgf/cm (21 in-lbs)



### Cable Installation Assembly

