



PoE-48

- High-Power Gigabit IEEE 802.3bt PoE+ Port
- Fanless Industrial Design
- 6kV Surge Protection
- Redundant Power Inputs and Over-Current Protection
- Sturdy Metal Case for Superior Durability
- -40°C to 65°C Operating Range
- Integrated DIN-Rail Mount
- Ideal for Security, Rail, Traffic, Mining, Industrial IoT, and more



The PoE-48, manufactured by Solis Energy, is a hardened, industrial-grade PoE injector designed to reliably connect PoE devices in harsh environments. The PoE-48 features an 802.3bt Gigabit PoE+ output which allows it to handle cutting-edge high-power and high-bandwidth devices.

The PoE-48 was designed with durability in mind. A hardened metal case, fanless design, redundant power inputs, over-current protection, and -40°C to 65°C operating temperature range mean that the PoE-48 is extremely resistant to hardware failure and well-suited to even the most demanding operating conditions.

The PoE-48's integrated DIN-rail mount, small form factor, and plug-and-play interface mean that the PoE-48 can be quickly and easily added to any network.



PoE-48

Technology

Ethernet Standards	IEEE 802.3af	PoE
	IEEE 802.3bt	PoE++
	IEEE 802.3	10BaseT
	IEEE 802.3u	100BaseT (X)
	IEEE 802.3ab	1000BaseT (X)
EMI Standards	FCC Part 15, CISPR (EN55022) Class B	
Manufacturing Standards	RoHS Compliant	
	WEEE Compliant	

PoE Specifications

PoE Modes	IEEE 802.3af Power over Ethernet (PoE)
	IEEE 802.3bt PoE (PoE++)
Number of PoE+ Ports	1
Maximum Power	95W (IEEE 802.3bt)
PoE Pinout	Pins 3, 4, 5, 6: V+; Pins 1, 2, 7, 8: V- (Mid-span)

Network Signal Protection

Protected Lines	1, 2, 3, 4, 5, 6, 7, 8
L-G Surge Protection	6kV
Clamp Voltage	(1,2; 3,6; 4,5; 7,8): 7.5 VDC

Power Specifications

Connection	1 removable 6-contact terminal block
Input Voltage	48VDC (44 - 57VDC), Redundant Dual Inputs
No-Load Consumption	4W
Power Budget	95W
Redundant Dual Inputs	Present
Over-Current Protection	Present

Physical Specifications

Dimensions (W x H x D)	32 x 115 x 84 mm (including DIN mount)
	1.3 x 4.5 x 3.3 in (including DIN mount)
Weight	600g
Installation	DIN-rail mount
Operating Temperature	-40 to 65 °C (-40 to 167 °F)
Storage Temperature	-40 to 75 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 90% (non-condensing)

PoE Output Protection

L-G Surge Protection	6kV
Power Clamp Voltage	(4,5; 7,8): 60 VDC

