60 Watt 2.5/5 Gigabit PoE injector

ETH-POEINJ60-2.5/5G-VI

Proxim's 60 Watt 2.5/5 Gigabit, PoE Injector provides power over Ethernet to Stratum X5 devices, when high performances (above 1 Gbps) is required.

- 2.5/5 Gigabit Ethernet Interface
- Passive PoE non compliant with IEEE 802.3at protocol (Continuous flow of power with no detection)
- Protection against short circuit, over current and over voltage (The output can be shorted permanently without damage)
- Safety certified against IEC/EN 62368-1:2020 + A11:2020 standard
- Level VI and COC power efficiency

Ordering Information

CPN	Description
949-00170	2.5/5 Gigabit , 60W, passive PoE injector with RJ45, level VI Compliance

RJ-45 Pin-Out

PIN	Data	Power
1	Data	Negative Out
2	Data	Negative Out
3	Data	Positive Out
4	Data	Positive Out
5	Data	Positive Out
6	Data	Positive Out
7	Data	Negative Out
8	Data	Negative Out

Specifications

EMC	47 CFR FCC part 15B Class B ANSI C63.4-2014 EN 55032:2015+A11:2020+A1:2020 class B
Immunity	EN 55035:2017+A11:2020 Harmonic EN61000-3-2:2019+A1:2021 Fluctuations-Flicker EN61000-3-3:2013+A2:2021 ESD EN61000-4-2:2009 Electromagnetic Field EN61000-4-3:2020 Electric Fast Transient EN61000-4-4:2012 Surge EN61000-4-5:2014+A1:2017 RF Field EN61000-4-6:2014+AC:2015 Voltage Dips EN61000-4-11:2020
Isolation Test	5 mA at 3000 VDC for 1 minute
Insulation Resistance	50 MΩ at 500 VDC for 1 minute
Static Electricity	Contact discharge ±4 KV Air discharge ±8 KV
Retention Time	5 msec min. 230 VAC and maximum load

Electrical Rating

Input Inlet	C14 Connector
Input Voltage	100 to 240 VAC, 47 to 63 Hz
Input Current	1.5 A max
Over Current Protection	2.2 A max
Leakage Current	3.5 mA max
Output Voltage	56.0 VDC
Output Current	1.1 A
Output Ripple	560 mV p-p
Output Power	61.6 W

Environment & Mechanical

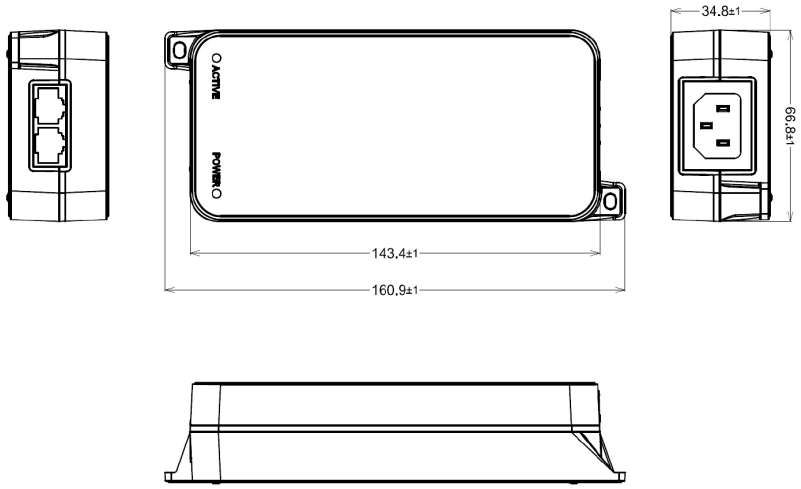
Temperature Range	Operating: 0 to +40 °C Storage: -20 to +70 °C
Relative Humidity (non-condensing)	Operating: 35 to 90 % Storage: 5 to 95 %
Dimensions	160.9 (L) x 66.8 (W) x 34.8 (H) mm 6.33 (L) x 2.63 (W) x 1.37 (H) inch
Weight	246±5 g /0.54±0.01 lbs
MTBF	≥ 100k hours

Efficiency

115 VDC – 60 Hz	No Load					
	0%	10%	25%	50%	75%	100%
Output current (mA)	-	110	275	550	825	1100
Output voltage (V)	56.09	55.89	55.74	55.26	54.78	54.31
Active output power (W)	-	6.15	15.33	30.39	45.19	59.74
Input voltage (V)	115	115	115	115	115	115
Input frequency (Hz)	60	60	60	60	60	60
Input power (W)	0.03	7.26	17.05	33.95	50.77	67.84
True power factor (W/VA)	-	0.485	0.525	0.573	0.596	0.612
Power consumed (W)	0.03	1.11	1.72	3.56	5.58	8.10
Active mode efficiency	-	84.71%	89.91%	89.51%	89.01%	88.06%
Average active efficiency	-	89.12%				

230 VDC – 50 Hz	No Load					
	0%	10%	25%	50%	75%	100%
Output current (mA)	-	110	275	550	825	1100
Output voltage (V)	56.13	55.94	55.63	55.19	54.68	54.07
Active output power (W)	-	6.15	15.30	3.35	45.11	59.48
Input voltage (V)	230	230	230	230	230	230
Input frequency (Hz)	50	50	50	50	50	50
Input power (W)	0.09	7.09	17.20	33.73	50.54	67.43
True power factor (W/VA)	-	0.339	0.412	0.466	0.492	0.507
Power consumed (W)	0.09	0.94	1.90	3038	5.43	7.95
Active mode efficiency	-	86.74%	88.95%	89.98%	89.26%	88.21%
Average active efficiency	-	89.10%				

Schematics



Package Contents

- One 2.5/5 Gigabit PoE Injector (ETH-POEINJ60-2.5/5G-VI)

ABOUT PROXIM WIRELESS:

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications. Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.

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