

PoE Power Injector

30W Series



Single Port Multi-Gigabit 30W Data Sheet

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Description

This product is an indoor AC to DC power over ethernet (PoE) injector. It can provide 30W output power with a constant 54Vdc main voltage source. It is built-in a LED to identify injectors that is in normal state.

Features

- * Full AC input voltage design with C14 socket
- * IEEE 802.3at standard
- * IEEE 802.3at backward compatible
- * 10Gbps Data Rates with Cat6a shielded Cable.
- * Automatic detection and protection of non-standard Ethernet terminals
- * IEC/EN 62368-1 design compliance
- * Energy efficiency level VII compliance
- * High reliability and high lightning surge ability



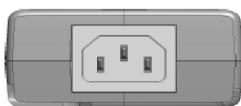
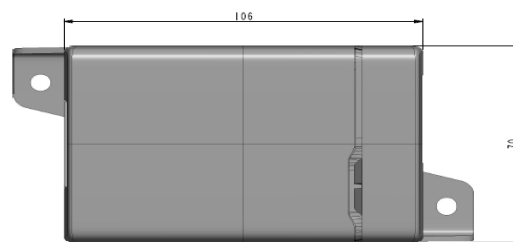
Electrical Specification

| Model Name | PA-1300-86LV-TG |
|----------------------------|---|
| Output | |
| Rated power | 30W |
| Rated voltage | 54Vdc |
| Rated current | 0.555A |
| Ripple & Noise(max.) | Ripple (scale 10ms) $\leq 500\text{mV}_{PP}$ Noise (scale 10us) $\leq 200\text{mV}_{PP}$ |
| Line & load regulation | 50V~57V |
| LED Behavior | Solid Green – Power good and output “ON” ; One for PoE connection (green) |
| Input Specification | |
| Input voltage range | 90Vac~264Vac, |
| Current range (max.) | 1A @ 90Vac, |
| Inrush current (typ.) | 100A, at 230VAC, cold start@25°C and full load |
| Frequency range | 47-63Hz |

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|-----------------------------|---|
| Leakage current (max.) | 0.5mArms at 264Vac |
| Efficiency | DOE VII |
| Protection Function | |
| Over voltage (max.) | 60V, Auto recover |
| Over current (max.) | One port <0.75A, Auto recover |
| Short circuit at O/P | Auto recover |
| Over temperature | Auto recover |
| Others | |
| Cooling fan | Natural cooling, no fan design |
| MTBF (min.) | > 200,000 hours at 25°C typical load |
| Environment | |
| Temperature | (Operating) -10~40°C / (Storage) -20~70°C |
| Humidity | (Operating and Storage) 5~90% RH non-condensing |
| Altitude (max.) | 5000 meters |
| Mechanical | |
| Dimension | 106(L)*70(W)*35(H) |
| Package Vibration Test | Follow ISTA-2A Standard |
| Weight (typ.) | 156 +/-5g |
| Safety | |
| Standard | CB/IEC62368-1,TUV62368-1,UL62368-1,EN62368-1, CCC GB4943.1,PSE J62368-1,BSMI CNS15598-1,KC62368-1 |
| Dielectric Strength | Primary to Secondary: 4242VDC/3000VAC for 1 minute Primary to Field Ground: 2121VDC/1500VAC for 1 minute |
| Insulation resistance(min.) | Primary to Secondary: >10M ohm 500VDC Primary to Field Ground: >10M ohm 500VDC |
| EMC | |
| EMI | EN55032, EN55035 Class B, FCC Part 15 Class B, VCCI Class B |
| ESD | EN55035 ; IEC 61000-4-2 Level 4, criteria A Air: +/-15KV Contact: +/-8KV |

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| Radiated (RS) | EN55035 ; IEC 61000-4-3 Level 2, criteria A (3V/m: 80MHz-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz) |
| EFT | EN55035 ; IEC 61000-4-4 Level 2 +/-1kV(5kHz or 100kHz) for AC mains, criteria A +/-0.5kV(5kHz) for PoE output and Data input ports, criteria B |
| Surge | EN55035; IEC 61000-4-5 For AC mains, criteria A: +/-4KV, line to line (differential mode) +/-4KV, line to earth GND (common mode) For PoE output, criteria B: +/-6KV, line to earth GND |
| Conducted (CS) | EN 55035 ; IEC 61000-4-6 Level 2, criteria A (3Vrms AM 80% 0.15MHz - 10MHz ; 3Vrms to 1Vrms 10MHz-30MHz ; 1Vrms 30MHz-80MHz) |
| Power Frequency Magnetic Field | EN 55035 ; IEC 61000-4-8 Level 1 (1A/m), criteria A |
| Voltage dips/interruptions | EN 55035 ; IEC 61000-4-11 Class 3 |
| Harmonic Current Emission (for power rating >75w PSU) | EN 61000-3-2 Class A |
| Voltage Fluctuation and Flicker | EN 61000-3-3 |

Mechanical Specification



Dimensions (L x W x H)
Weight
Input Connector
Data In/Output Connector

106mm x 70.0mm x 35.0mm
200~300g
IEC320 C14
Shielded RJ45