

TS-I48G-AT : 10/100/1000Mbps PoE Injector



INPUT CHARACTERISTICS:

Input Voltage :

Rated voltage: 100-240V

Ac adjustment range (Variation Range): 80-264V Ac

Input Frequency:

Nominal Frequency: 50 / 60Hz

Variation Frequency: 47-63Hz

Input Current:

- When the input AC voltage is rated lower limit, the output voltage load full load, the maximum input AC current 1A.
- 1Arms max At any input voltage and rated, DC output rated load.

Inrush Current:

When the output is rated load, the ambient temperature is 25 °C, the input 240Vac cold start power when the maximum, Surge current is less than 30A.

30Amps Max. Cold start at 240Vac input, with rated load and 25 °C ambient.

AC Leakage Current:

When the input voltage 240Vac, the maximum leakage current of 0.25mA. /0.25mA Max At 240Vac input.

OUTPUT CHARACTERISTICS:

Boot, first determine whether the load is 25K Ω resistance characteristics (that is, whether the load in the connected), the corresponding feedback

The voltage is 1V-11V. And then start the power classification test: first output voltage between 14V-25V, according to the feedback current automatically

Assign a current reference (Range: $\pm 10\%$). When the normal working hours of current in the 80mA \leq I \leq 720mA range

Within the normal power supply beyond the current load into the protection state until the fault cleared or after the chip 2S re-

Detection, the failure to confirm the work before they can be solved, then every 1S repeated testing time.

Voltage	Voltage Min	Voltage Max	Voltage Line Regulation	Load Regulation
+ 48.0 Vdc	48.0 V	50.4 V	± 3%	± 5%
Voltage	load Min	Load Max	Load Peak	Output Power
+ 48.0 Vdc	0.08A	0.72A	0.8A	35W

Ripple And Noise :

Test conditions: any load under normal operation, use the oscilloscope bandwidth of 20MHz to connect to the output of the charger

Side, while the output and connected with a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor.

The ripple and noise are as follows when measure with Max. Bandwidth of 20MHz

And Parallel 47uF / 0.1uF, crossed connected at testing point.

Voltage	Voltage Ripple And Noise (Max.)
+ 48.0 Vdc	300 mVp-p (standard value is ≤ 480 mVp-p)

Turn On Delay Time:

2 second Max. At 115Vac input and output Max. Load.

Rise Time:

40mS Max. At 115Vac input and output Max. Load.

Hold Up Time:

5mS Min. At 115Vac input and output Max. Load.

Efficiency :

80% Min. At 100Vac input and output Max. Load.

81% Min. At 240Vac input and output Max. Load.

Overshoot:

15% Max. When power supply at turn on or turn off.

PROTECTION REQUIREMENT:

Short Circuit Protection:

The power supply in the short-circuit release, can work to restore.

The power supply will be auto recovered when short circuit faults remove.

Over current protection: over-current troubleshooting, the power will automatically resume normal work.

The power supply will be auto recovered when over current faults remove.

Over Voltage Protection:

When the output voltage exceeds the rated voltage, the power will be protected, troubleshooting can not resume normal work.

The power supply will not be auto recovered when faults remove.

ENVIRONMENTAL REQUIREMET:

Operating Temperature:

0 °C ~ -40 °C, full load, normal work (Full load Normal operation).

0 °C to 40 °C, Full load Normal operation.

Storage Temperature: - 20 °C to85 °C, with shell (With package).

Operating Humidity (Relative Humidity):

5% (0 °C) ~ 90% (40 °C), 72 hours, full load, normal work

5% (0 °C) ~ 90% (40 °C) RH, 72Hrs, Full load Normal operating.

Vibration:

Test standards: International Electrotechnical Commission

5 ~ 9Hz, A = 1.5mm Acceleration (9 ~ 200Hz, Acceleration 5m / s²)

Transportation: IEC 721-3-2 2M2

5-9 Hz, A = 3.5 mm

9 ~ 200Hz, acceleration = 5m / S²

200 ~ 500HZ, the acceleration = 15m / S²

axial vibration: (Axes, 10 cycles per axis).

Permanent damage cannot occur during the test.

After the power is turned on and off, the prototype can be restored to its original condition.

Dropping test (Packed):

1 corner, 3 edges, and 6 surfaces

Height 76m Height: 76cm

SAFETY AND EMC REQUIREMENT:

1. Safety: CE compliant
2. High Pressure (DIELECTRIC STRENGTH) (H-Pot):
() Primary to secondary), 1500Vac / 5mA / 60s.

MECHANICAL REQUIREMENT:

Shell size:

The power supply size L145 * W62 * H40mm

Output mode:

