

Shenzhen Ganpower Electronics Limited
SPECIFICATION FOR APPROVAL

CUSTOMER: Connect Data

DESCRIPTION: 10G PASSIVE POE INJECTOR

OUR MODEL NO: GRT-540112A-10G

CLIENT PART NO.: 902-1180-EU00-CD

PRODUCT NO:

DATE: 2022-07-25

APPROVED SIGNATURE		
DATE:	DATE:	DATE:

PLEASE RETURN TO US ONE COPY OF “SPECIFICATION FOR APPROVAL” WITH YOUR APPROVED SIGNATURE

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Single Port POE Injector Specifications

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1、SCOPE:

The purpose of the document is to specify the functional requirements of a 54Vdc 60W POE power supply, passive type, supports 10G Ethernet rate.

2、INPUT CHARACTERISTICS:

2.1 Input Voltage:

Nominal Voltage: 100-240Vac

Variation Range: 90-264Vac

2.2 Input Frequency:

Nominal Frequency: 50-60Hz

Variation Frequency: 47-63Hz

2.3 Input Current:

2.0Arms max At any input voltage and rated, DC output rated load.

2.4 Inrush Current:

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

2.5 AC Leakage Current:

3.5mA Max At 240Vac input.

3、OUTPUT CHARACTERISTICS:

3.1 Power Output;

Voltage	Min. Load	Max. Load	Output Power
+54Vdc	0A	1.12A	60.48W

3.2 Combined Load/Line Regulation:

Voltage	Min. Voltage	Max. Voltage	Line Regulation	Load Regulation
+54Vdc	51.30V	56.70V	±3%	±5%

3.3 Ripple And Noise:

The ripple and noise are as follows when measure with Max. Bandwidth of 20MHz and Parallel 4.7uF/0.1uF, crossed connected at testing point.

Voltage	Ripple And Noise(Max.)
+54Vdc	540mVp-p

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3.4 Turn On Delay Time:

3s Max. At 115Vac input and output Max. Load.

3.5 Rise Time:

200ms Max. At 115Vac input and output Max. Load.

3.6 Hold Up Time:

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

3.7 Efficiency:

87% Min. at 115~230Vac input and output Max. Load (25% / 50% / 75% /100%)

3.8 Overshoot:

±5%Max. When power supply at turn on or turn off.

3.9 MTBF: Mean Time Between Failure

45000 operating hours confidence-level when 80% max output load at 25°C

4、 PROTECTION REQUIREMENT:

4.1 Short Circuit Protection:

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

4.2 Over current Protection:

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

5、 ENVIRONMENTAL REQUIREMET:

5.1 Operating Temperature: -10°C to +50°C (at Full load)

5.2 Storage Temperature: -20°Cto 70°C (with package)

5.3 Working Humidity:5~90% RH, Non-condensing

5.4 Storage Humidity:5~95% RH,Non-condensing

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5.4Vibration:

1、 Operating: IEC 721-3-3 3M3

5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/s^2)

2、 Transportation: IEC 721-3-2 2M2 5-9Hz, A=3.5mm

9~200Hz, Acceleration= 5m/S^2 200~500HZ, Acceleration= 15m/S^2

3、 Axes, 10 cycles per axis

No permanent damage may occur during testing.

The product has to restore its original situation after power off/on.)

5.5 Dropping(Packed): 1 corner, 3 edges, and 6 surfaces, Height: 76cm

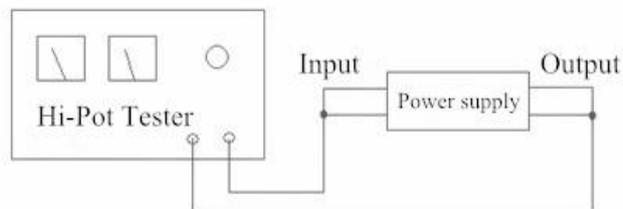
6、 SAFETY AND EMC REQUIREMENT AND STANDARD:

6.1 Safety: IEC62368 -1 standard

CE: EMC/LVD FCC Part 15 Class B/ EN55032 Class B

6.2 DIELECTRIC STRENGTH):

(Primary to secondary): 3000Vac/5mA/1s.



7、 MECHANICAL REQUIREMENT:

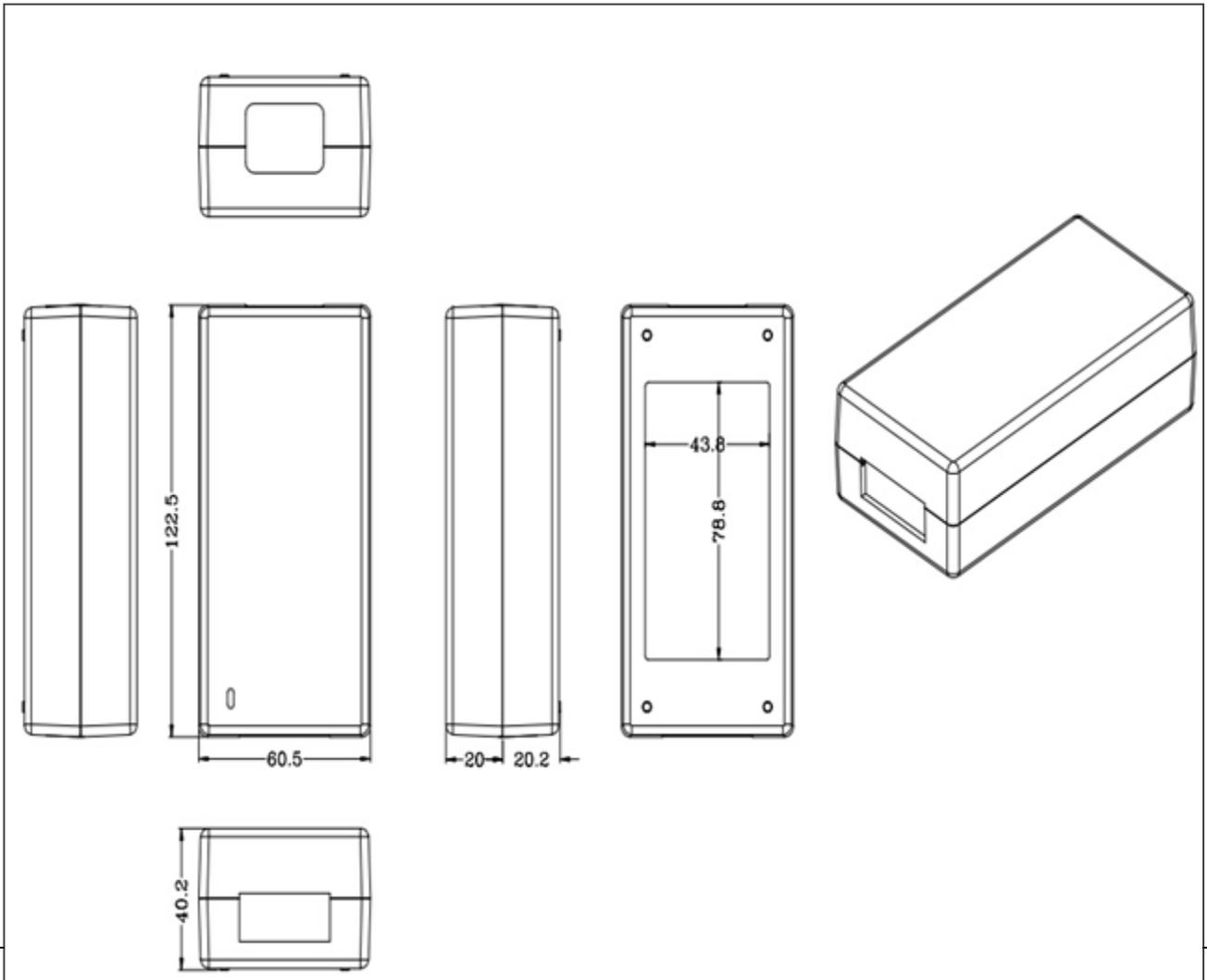
7.1 Size: 123 x 61 x 40 mm (L x W x H)

7.2 Material: plastic, compliance with UL94 V-0

7.3 Color: Black

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7.4 Mechanical drawing



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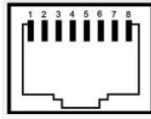
7.5 Input & Output Connector:

Input AC connector: IEC320-1/C14 socket

Output connector: 1*RJ45 for POE + 1*RJ45 for LAN

*.Connector: 1*RJ45 for PoE + 1*RJ45 for LAN, support 10G ethernet

PIN	DATA	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 -



8: Label: printing by laser machine

POE POWER SUPPLY

MODEL: GRT- 540112A-10G

INPUT: AC100~240V 50/60Hz 1.5A Max

OUTPUT: 54.0V --- 1.12A 60.48W

DATA IN PINS	DATA& POWER OUT PINS
1	1 -POWER
2	2 -POWER
3	3 +POWER
4	4 +POWER
5	5 +POWER
6	6 +POWER
7	7 -POWER
8	8 -POWER

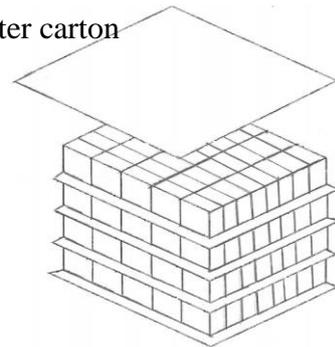
CAUTION: INDOOR USE ONLY.
MADE IN CHINA SN:2207020001

10. Packing Information

Standard: **EU AC Power Cord** +PE bag +inner white box + outer carton

Outer Carton size: 545*370*280mm (L*W*H)

Qty per carton: 50pcs



DESIGN:

CHECK:

APPROVAL:

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Installation and Test

- ◇ Package Inspection
- ◇ Installation
- ◇ Power test

1 Package Inspection

1. Open the carton to check if all accessories complete
2. Check the Body if any damage, shape, or rust
(If accessories / quantities not as described or any damage during transportation, Please inform us so as to advise the solutions)

2 Installation

- (1) Connect the AC power cable into input socket
- (2) Tighten all cables when connecting, to avoid poor connect and loose

Notes:

1. Remote installing area must be far away the source like as Heat and Electromagnetic interferences,
2. No corrosive gas and metallic dust
3. Smoothly place when installation, to avoid strenuous vibration)

(Check AC input voltage range if within 100-240VAC)

(Avoid friction between POE and others equipment and cause any local damage)
