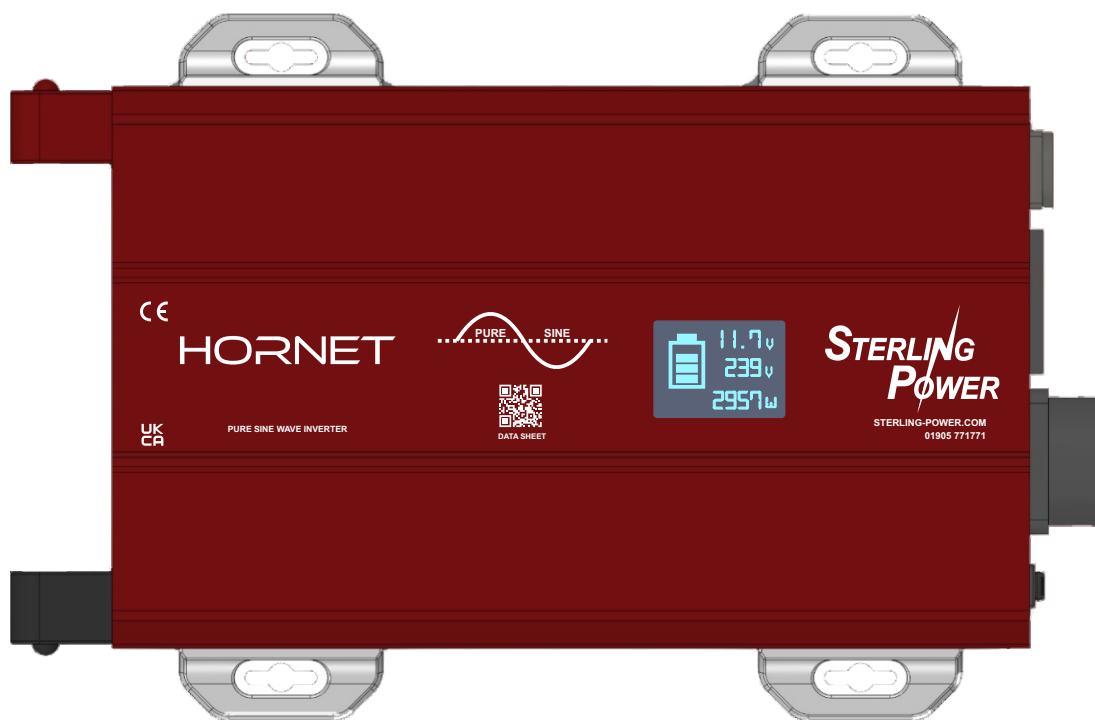


Part No:
H121000
H122000
H123000



STERLING POWER

Sterling Power Products
1000W | 2000W | 3000W
12V to 240V Inverters

HORNET range of Pure Sine Wave Inverters



UK
CA

CE

RoHS
compliant



www.sterling-power.com
www.sterling-power-usa.com

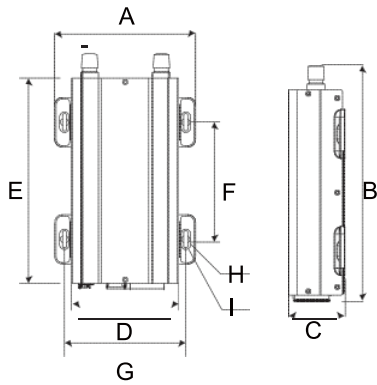
Warranty (2 years return to factory)

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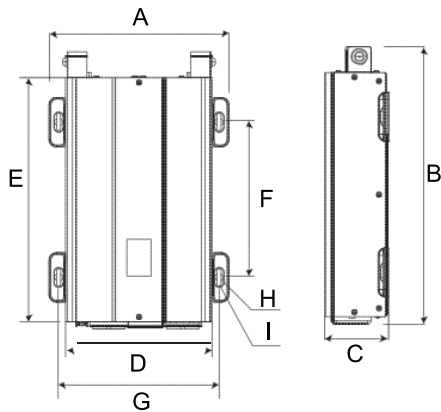
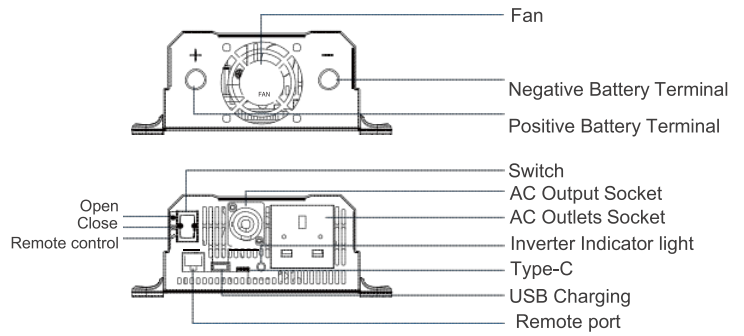
INTRODUCTION PRODUCT OVERVIEW

MODEL NO.		H121000			H122000			H123000		
OUTPUT	Rated Power (Typ.)	1000W			2000W			3000W		
	Maximum Output Power (1Min)	>1000W~1150W (100%~115%)			>2000W~2300W (100%~115%)			>3000W~3450W (100%~115%)		
	Surge Power (Max .300 ms)	>3000W			>6000W			>9000W		
	AC Voltage	220/230/240VAC								
	Frequency	50/60Hz ± 0.5%								
	Waveform	Pure sine wave (THD<3%)								
	AC Regulation (Typ.)	±5%								
	Type-C	Output voltage: 9V, Output current: 2A, Maximum power: 18W								
	USB	Output voltage: 5V output current: 2.1A maximum power: 10.5W								
	LED Indicator	Input Voltage level,output load level and faulty status								
INPUT	DC Voltage	12V DC	24V DC	48V DC	12V DC	24V DC	48V DC	12V DC	24V DC	48V DC
	Voltage Range	10.5~16.5VDC	21.0~33.0VDC	42.0~66.0VDC	10.5~16.5VDC	21.0~33.0VDC	42.0~66.0VDC	10.5~16.5VDC	21.0~33.0VDC	42.0~66.0VDC
	No Load Current	0.5A	0.18A	0.23A	0.75A	0.4A	0.25A	0.82A	0.5A	0.3A
	Efficiency (max)	91%	93%	93%	90%	93%	94%	91%	92%	93%
	Remote Standby Mode	/	/	/	/	/	/	/	/	/
PROTECTION	Input Under-Voltage Protection	10.5 ± 0.5VDC	21.0 ± 0.5VDC	42.0 ± 1.0VDC	10.5 ± 0.5VDC	21.0 ± 0.5VDC	42.0 ± 1.0VDC	10.5 ± 0.5VDC	21.0 ± 0.5VDC	42.0 ± 1.0VDC
	Input Under-Voltage Recovery	12.5 ± 0.5VDC	25.0 ± 0.5VDC	50.0 ± 1.0VDC	12.5 ± 0.5VDC	25.0 ± 0.5VDC	50.0 ± 1.0VDC	12.5 ± 0.5VDC	25.0 ± 0.5VDC	50.0 ± 1.0VDC
	Input Over-Voltage Protection	16.5 ± 1.0VDC	33.0 ± 1.0VDC	63.0 ± 1.0VDC	16.5 ± 1.0VDC	33.0 ± 1.0VDC	63.0 ± 1.0VDC	16.5 ± 1.0VDC	33.0 ± 1.0VDC	63.0 ± 1.0VDC
	Input Over-Voltage Recovery	15.0 ± 0.5VDC	30.0 ± 0.5VDC	58.0 ± 1.0VDC	15.0 ± 0.5VDC	30.0 ± 0.5 VDC	58.0 ± 1.0VDC	15.0 ± 0.5VDC	30.0 ± 0.5 VDC	58.0 ± 1.0VDC
	Output Overload	1000W ≥ 115%			2000W ≥ 115%			3000W ≥ 115%		
		1minute automatic shutdown output , automatic lock, restart to recover								
	Output Short Circuit	Output short circuit protection 3s shutdown lock, restart to recover								
	Over Temperature	85 ± 5								
	DC Input Reverse Polarity	By internal fuse open								
SAFETY& EMC	Withstand Voltage	Bat I/P-AC O/P:3.0 KVAC AC O/P -FG:1.5 KVAC								
	Isolation Resistance	Bat I/P-AC O/P, Bat I/P - FG, AC O/P- FG:10 0 M ohms / 50 0VDC/ 25 /70% RH								
	EMC Emission	Compliance to FCC classA , E- Mark EACTPTC 02 0, EN55 0 3 2 classA, 72/ 24 5/ CEE,9 5/5 4/ CE								
	EMC Immunity	Compliance to EAC TPTC 020 EN61000-4-2,3,4,5,6,8,11								
ENVIRONMENT	Working Temp	-30 ~ 60								
	Working Humidity	20~90% RH								
	Storage Temp, Humidity	-30~70 / -22~+158F , 10~95% RH non-condensing								
OTHERS	Dimension	310*140*73mm			365*192*85mm			405*210*85mm		
	Gross Weight	≈ 3.50 KG			≈ 4.80 KG			≈ 6.30 KG		

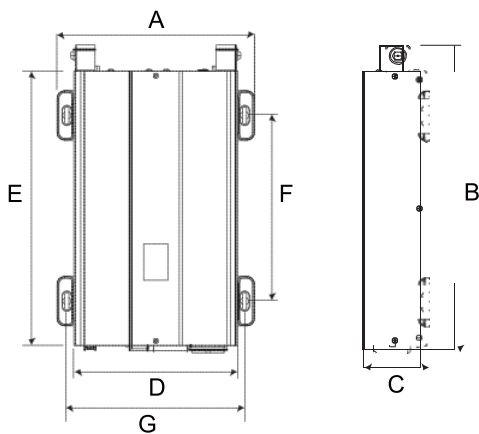
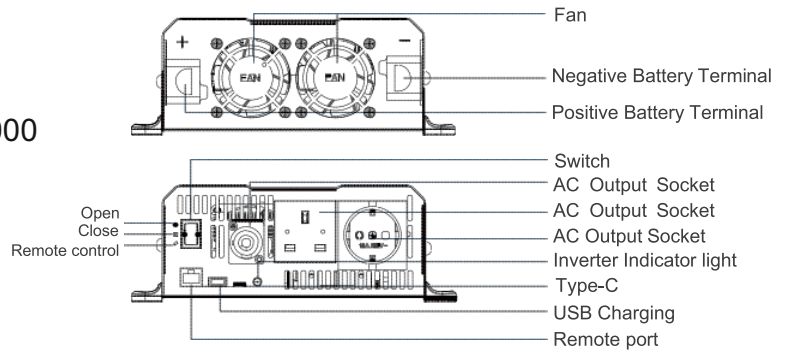
INTRODUCTION MEASUREMENTS



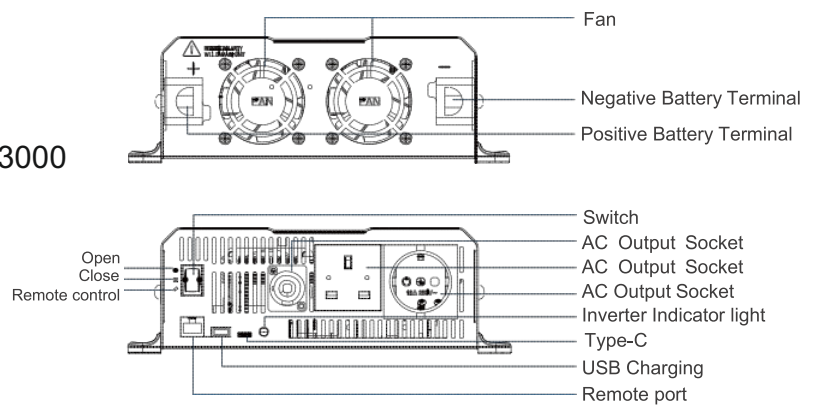
H121000



H122000



H123000



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	
1000W	140	310	73	159	270	154	185	Ø10	Ø5.2	≈ 3.50 KG
2000W	192	365	85	211	320	204	237	Ø10	Ø5.2	≈ 4.80 KG
3000W	214	405	85	233	360	244	259	Ø10	Ø5.2	≈ 6.30 KG

Key What's what on the Hornet

On | Off | Remote Control switch.
The three way switch allows the inverter to be turn on / off locally.

Or, it can be set to Remote Control. This gives the remote control the bias to operate the inverter remotely.

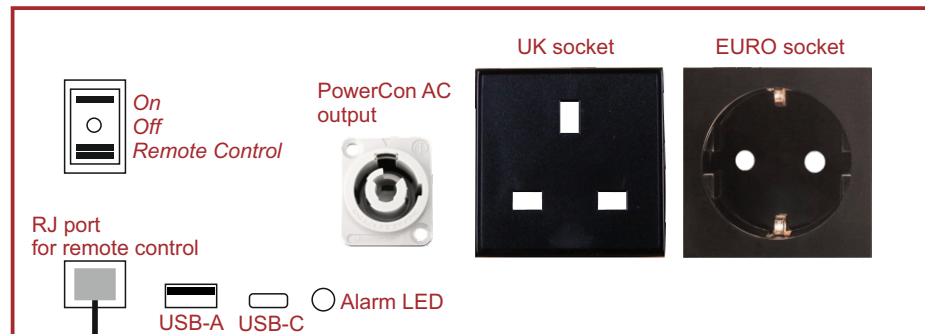
RJ port - this port is where the remote control connects to.

USB-A is a 5V 2.1A port for charging phones and tablets

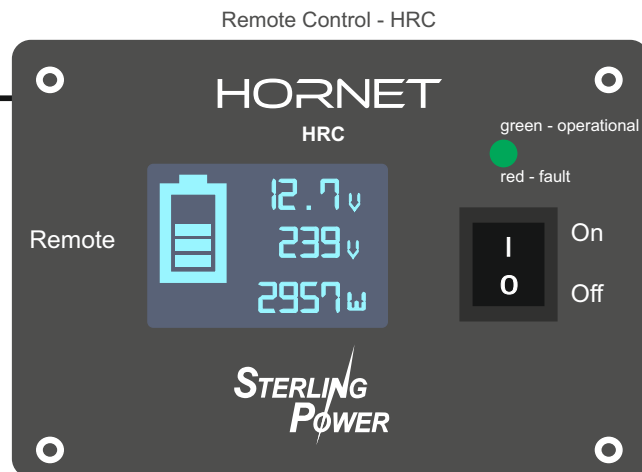
USB-C is an 18W power supply for charging up phones and tablets

PowerCon AC output. This is an AC outlet to allow the Hornet to be hardwired into your consumer unit or to be more securely fastened to distribute power around your AC system.

The complementary PowerCon plug is require to access the power from this output. The plug comes with the inverter.



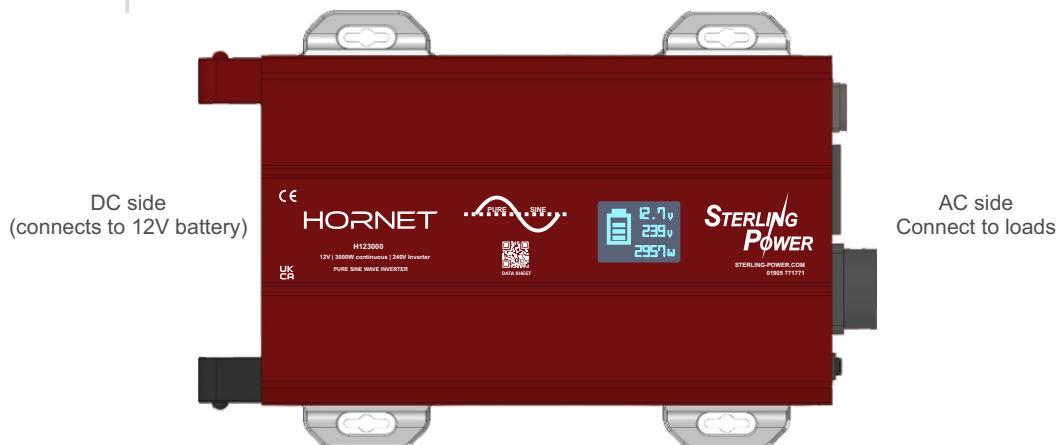
4m cable



Remote Control:

- On / Off switch
- LCD display
- LED indication

Feet for mounting, with covers



Installation 12V Side of installation

12V side of installation

Wire the positive (red) terminal of the Horner to the positive terminal of the battery. Inline, we always recommend fusing this wire. Information about fuses and cable thickness, below.

Wire the negative (black) terminal of the Horner to the negative terminal of the battery.

Ensure the cable run is as short as you can make it.

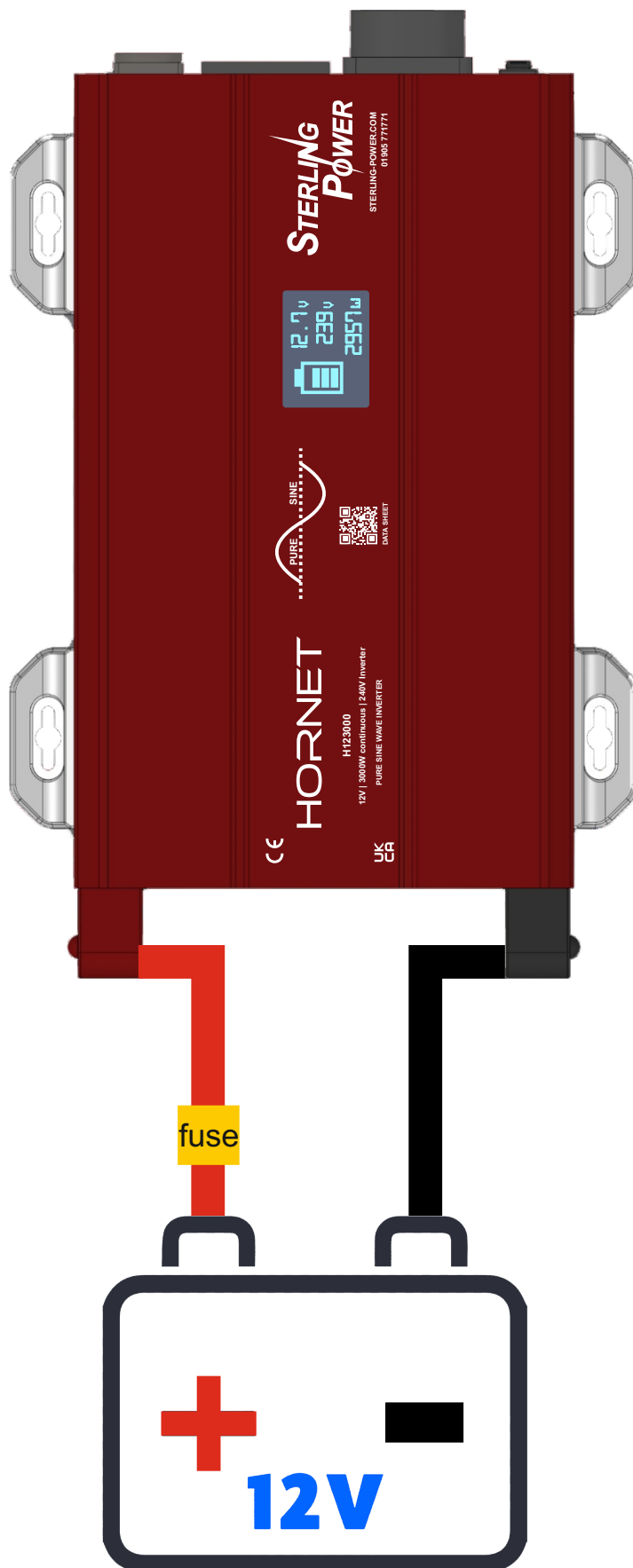
The bolts are M8 and have plastic insulation around them

Cable thickness CSA

H121000 = 25mm²
H122000 = 50mm²
H123000 = 90mm²

Fuse rating recommendation

H121000 = 100A
H122000 = 200A
H123000 = 300A



Installation AC Side of installation

The inverter puts out 240VAC at 50Hz, provided there is a good DC connection first. So, please ensure there is ~12V connected, first.

The power rating depends on the Hornet model:

H121000 - 1000W

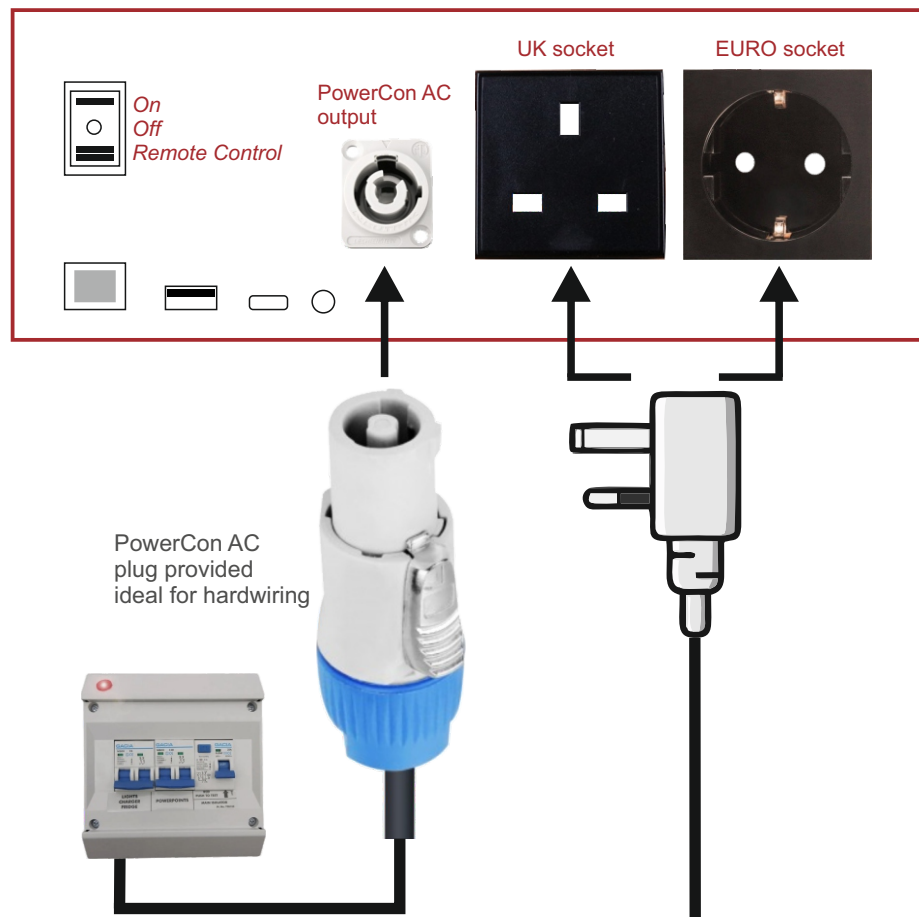
H122000 - 2000W

H123000 - 3000W

If you wish to hard wire the AC into a consumer unit we recommend using the PowerCon socket and plug.

For connecting appliances directly into the inverter, please use the UK or Euro socket and plug.

The inverter AC output can be toggled with the on / off switch. Or, via the remote control, if required.



Troubleshooting

Protective Function

- 1) Low-voltage alarm: The buzzer sounds 2 times with 1 Hz gap.
- 2) Low voltage protection: The buzzer continuously sounds 3 times alarm, with 1 Hz gaps
- 3) Low-voltage recovery: the low-voltage rise automatically restores the output, and the buzzer sounds 3 times alarm is cancelled.
- 4) Overvoltage protection: The buzzer sounds 4 times, with 1 Hz gap.
- 5) Overvoltage recovery: The voltage is reduced automatically to restore the output, and the buzzer sounds 4 times alarm is cancelled.
- 6) Thermal protection: $85^{\circ} \pm 5^{\circ}$, when overheat protection buzzer sounds 5 times alarm, with 1 Hz gap.
- 7) Overload protection: overload 100%~115% 60s Turn off, overload 116%~150% 3s Turn off, overload 151%~200% 1s Turn off, overload >200% 200ms Turn off, The buzzer blared.
- 8) Short circuit protection: Output short circuit protection 3s shutdown lock.

Remedy

- Ensure DC voltage is above 11.5V
- Ensure DC voltage is above 11.0V
- Ensure DC voltage is between 11.0-15.5V
- Allow Hornet to cool, possibly hot ambie
- Hornet has been over loaded, reduce loa
- Pos and negative are the wrong way

