LINEAR POWER SUPPLY

PSU3

13.8 Volt 3 Amp

FEATURES:

- Very Low Noise.
- Metal Gear Plate
- Battery Charging.
- Two Fused Outputs.
- Output On Indicator.

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DESCRIPTION:

The PSU3 is a linear power supply with two fused outputs and additional battery charging output. It's gear plate design allows it to be fitted inside other equipment.

SPECIFICATIONS:

Inputs

Voltage-	230 VAC, +/- 10%
Frequency-	50 Hz
Current-	290 mA
Protection-	5x20mm, 1.6A Fuse.

Outputs

Total Power-	41.5 Watts
Voltage-	13.8 VDC
Main O/P Current-	2.7 Amp
Battery-	0.3 Amp
Hold up time-	10 ms
Ripple-	2 mV P/P
Line Regulation-	<6.6%
Load Regulation-	<2.6%
Protection:	
Current-	5x20mm 3A Fuse x2
Voltage-	N/A
Battery-	current limited to 300mA

Efficiency 62.2%

Isolation

In/Out-	5 KV AC 1 sec
In/Gnd-	5 KV DC

Temperature

Operating-	0°C to 50°C
Rise Heatsink-	52°C
Rise Transformer-	37°C
Over temp-	N/A

Mechanical

White Powder Coated Steel Plate

Mounting-	4 x 4mm holes
Weight-	2.0 Kg
Dimensions-	200 x 92 x 68mm

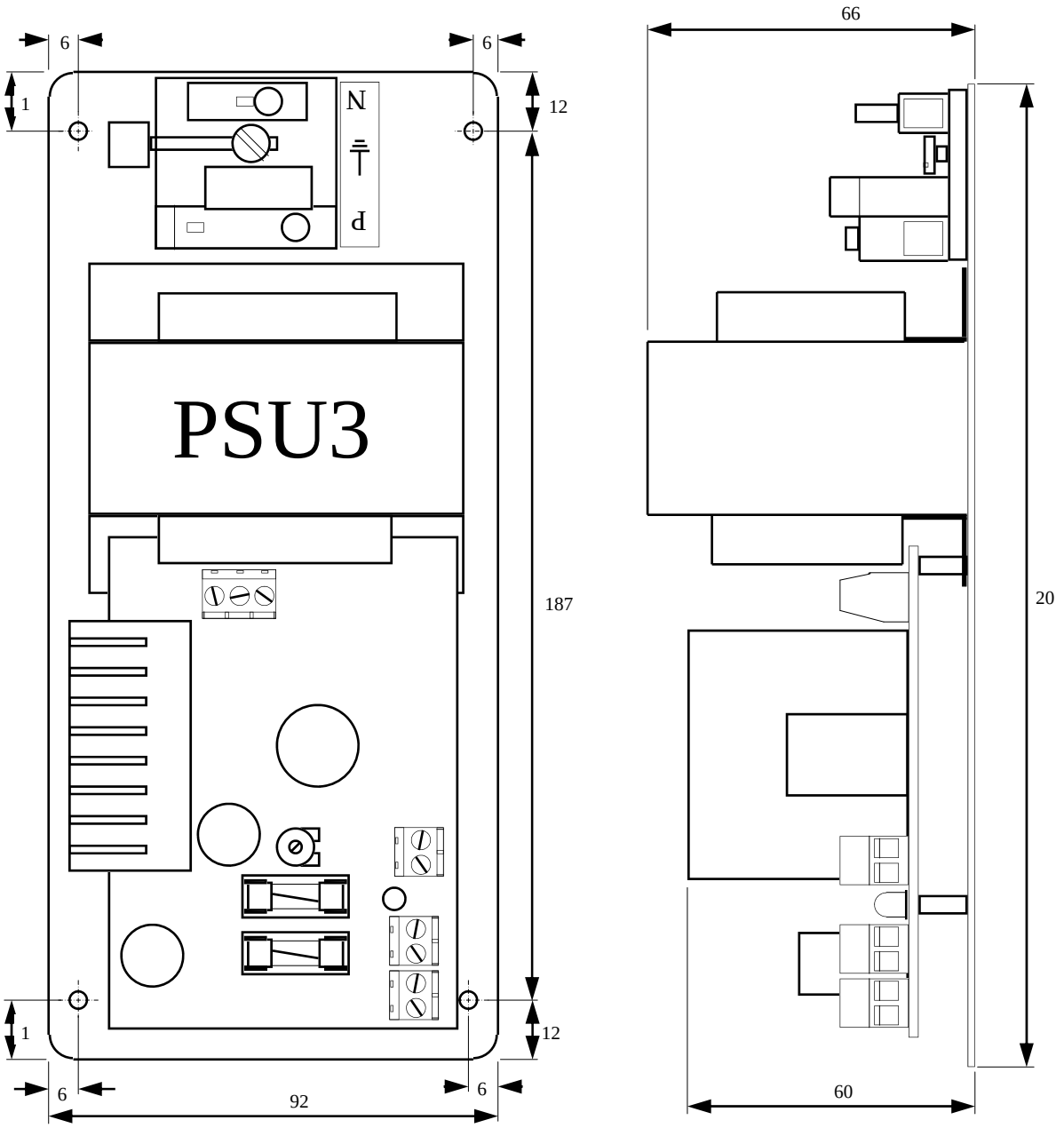
Connections

Input-	2.5mm² Screw term. block
Out 1-	2.5mm Rising Clamp
Out 2-	2.5mm Rising Clamp
Battery-	2.5mm Rising Clamp

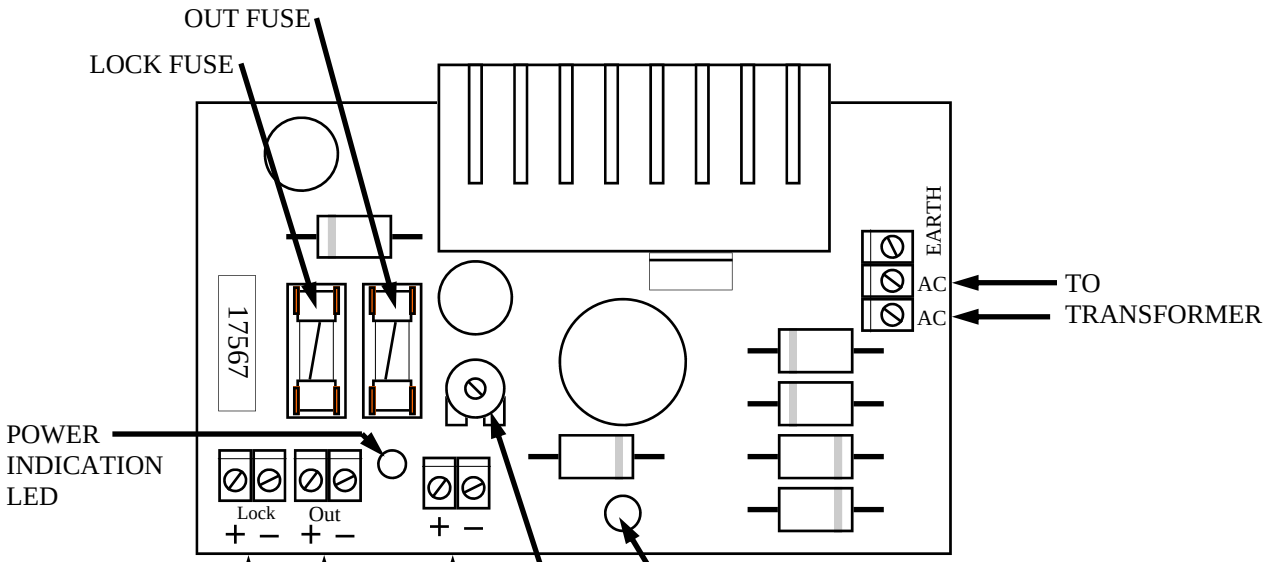
Accessories Supplied

-Battery Leads

PSU3



WIRING



BATTERY CHARGE LIMITING LAMP
(if the lamp is glowing for more than a day the battery might be to flat to recover, needing replacing.

TRIMPOT:
If the output voltage is not set to your desired level, then you can adjust it using a small flat blade screw driver. Turning it clock wise will increase the voltage and anti-clock wise will reduce the voltage. (the supply should be set to 13.80 volts from factory, as this is the recommended voltage to charge a 12 volt SLA battery).

BATTERY INPUT:
Use supplied Battery Leads to connect the PSU to a 12 Volt SLA Battery, MAX 7Ah Current Capacity.
The PSU puts out a Maximum Current of 250 mA.
(if a Battery is connected the Voltage Must be set to **13.80 Volts**)

OUTPUT:
This is the standard Regulated Output, Connect your load across the Positive and negative terminal. The Output is Fused, on a PSU3 there is a 3 Amp fuse.

LOCK OUTPUT:
If you are using an electrical device with a Back EMF potential, (such as a Maglock) you might want to use this output, as it has better noise and Spike filtering. It is also fused a 3 Amp fuse.
(the total current available from the supply, drawn in total from all outputs must not exceed the supply's rating).