

LINEAR POWER SUPPLY



PSU24/1.5

27.6 Volt 1.5 Amp

FEATURES:

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



DESCRIPTION:

The PSU24/1.5 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. All connections are via screw terminals.

SPECIFICATIONS:

Inputs

Voltage-	230 VAC, +/- 5%
Frequency-	50 Hz
Current-	350 mA
Protection-	5x20mm, 1.6A Fuse.

Outputs

Total Power-	41 Watts
Voltage-	27.6 VDC
Main O/P Current-	1.5 Amp
Battery-	0.3 Amp
Hold up time-	10 ms
Ripple-	2 mV P/P
Line Regulation-	<0.17%
Load Regulation-	<0.8%
Protection:	
Current-	5x20mm 1.6A Fuse x2
Voltage-	N/A
Battery-	current limited to 300mA

Efficiency 57%

Isolation

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

Temperature

Operating-	0°C to 50°C
Rise Heatsink-	°C
Rise Transformer-	°C

Mechanical

White Powder Coated Steel Plate	
Mounting-	4 x 4mm holes
Weight-	1.6Kg
Dimensions-	200 x 92 x 66mm

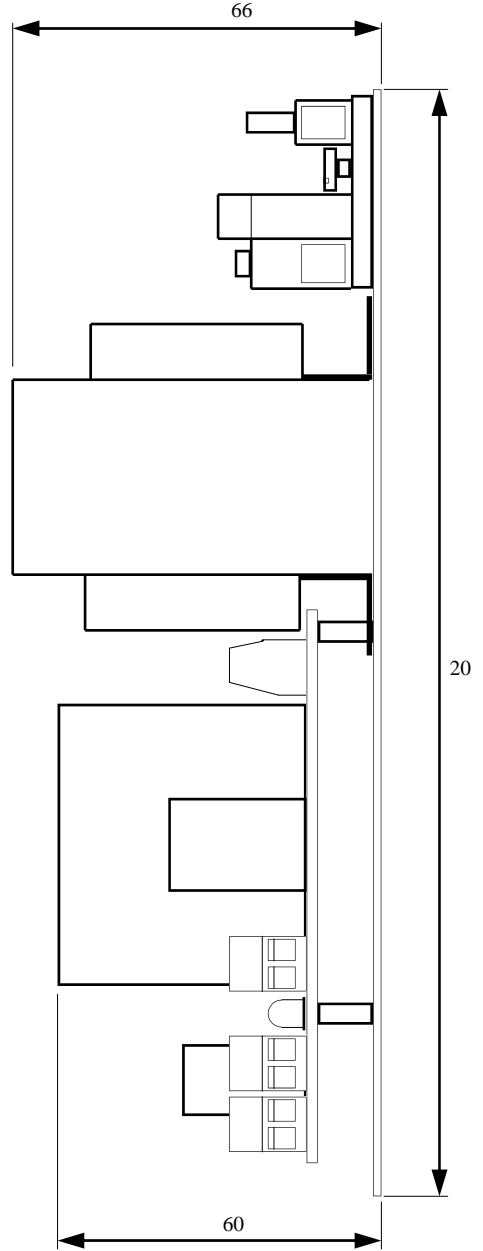
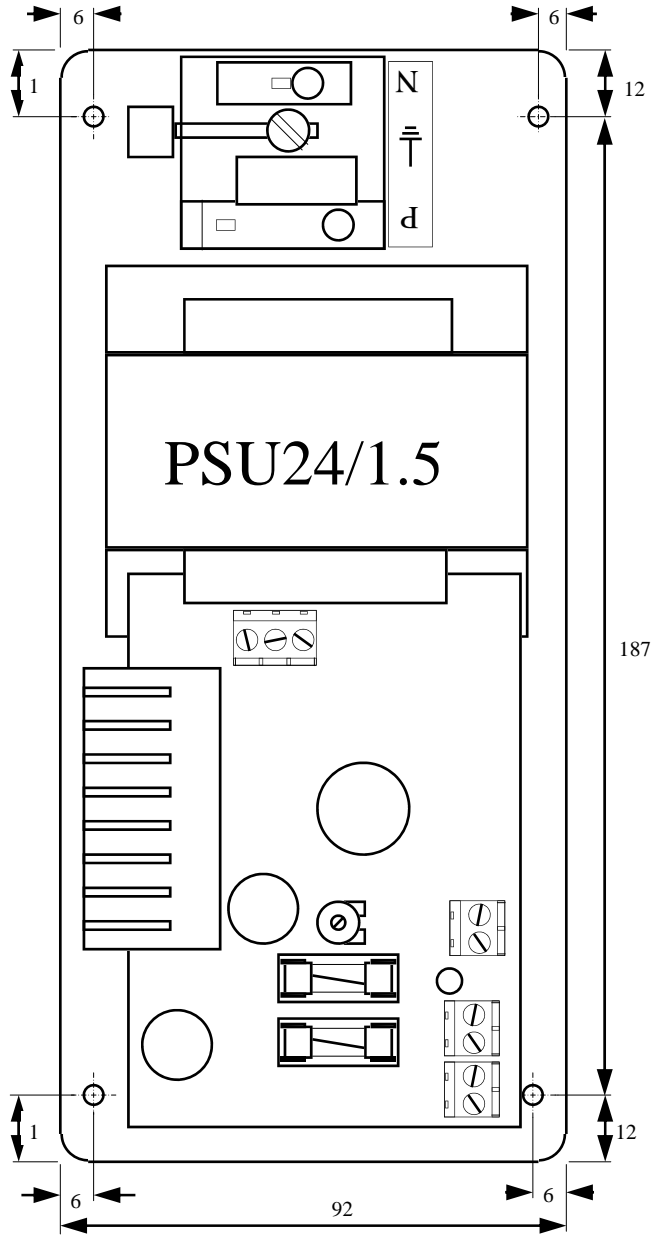
Connections

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

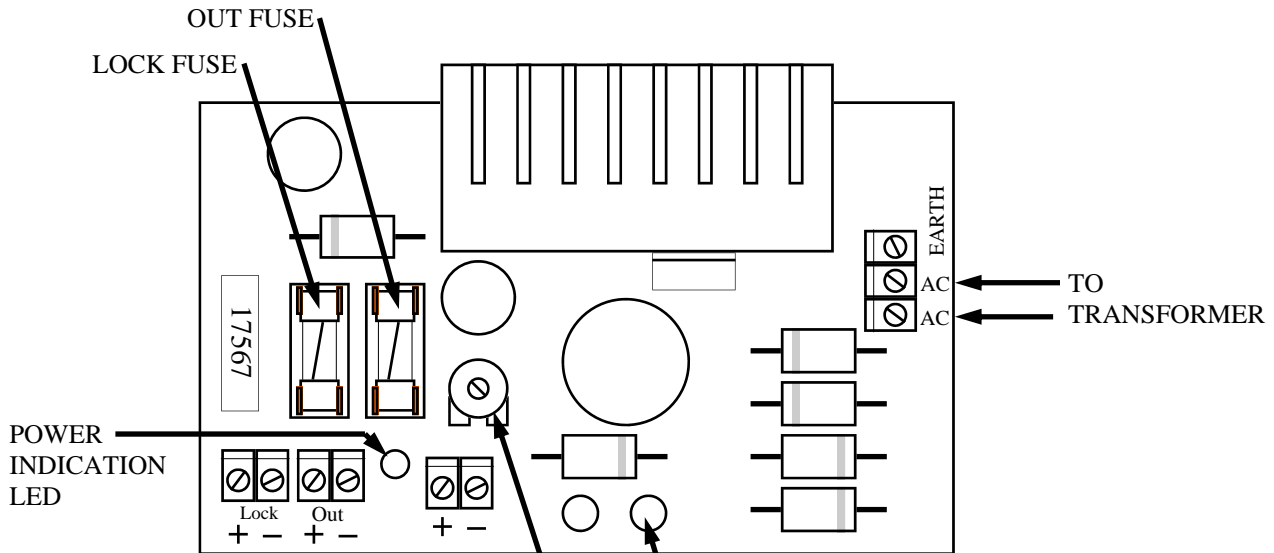
Accessories Supplied

-Battery Leads + Battery link lead

PSU24/1.5



WIRING



BATTERY CHARGE LIMITING LAMPS:
If the lamp is glowing for more than a day the battery might be too 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 clockwise will increase the voltage and anti-clockwise will reduce the voltage. (The supply should be set to 27.6 volts from factory, as this is the recommended voltage to charge two 12 volt SLA Batteries in series).

BATTERY INPUT:
Use supplied Battery Leads and Link Lead to connect the PSU to two 12 Volt SLA Batteries in series, MAX 7Ah Current Capacity. The PSU puts out a Maximum Current of 250 mA. (If the Batteries are connected the Voltage Must be set to **27.60 Volts**)

OUTPUT:
This is the standard Regulated Output, Connect your load across the Positive and negative terminal. The Output is Fused to a Max current of 1.6 Amps.

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 with a 1.6 Amp fuse. The total current available from the supply, drawn in total from all outputs must not exceed the supply's rating.