

SWITCH MODE POWER SUPPLY



PSU1B SM

13.8 Volt 1.5 Amp

FEATURES:

- Battery Charging & Low Voltage Disconnect
- 2 Fused Outputs.
- Dynamic Battery & Mains Monitoring
- Metal Cabinet

DESCRIPTION:

The PSU1B SM features classic step down isolation transformer, with low loss switch mode regulation final stage. Giving great reliability and safety. With selectable charge rate for the battery back and smart dynamic monitoring. Making it an ideal access control power supply.

SPECIFICATIONS:

Inputs

Voltage- 220-240 VAC
 Frequency- 50 Hz
 Current- 150mA Max
 Protection- Integrated 250mA Fuse

Outputs

Total Power- 21 Watts
 Voltage- 13.8 VDC
 Main O/P Current- 1.5 Amp
 Battery- 250/500mA (selectable)
 Hold up time- 30ms
 Ripple- 110mV P/P
 Line Regulation- <0.07%
 Load Regulation- <1.25%
 Protection:
 Over Load- 110-150% rated
 Current Limit- 1.5A
 Fuse- 2 x 1.5Amp PTC Fused

 Battery- 3A PTC Fuse
 LVD- 10.5 VDC

Efficiency 85%

Isolation

In/Out- 500 V DC /100M Ohms
 In/Gnd- 500 V DC /100M Ohms

Temperature

Operating- 0°C to 50°C
 Rise Heatsink- 40°C
 Over temp- 125°C thermal fuse
 Non Resetting

Mechanical

Powder Coated Steel Plate
 Mounting- 4 x 5mm Key holes
 Weight- 3.2 Kg
 Dimensions- 260 x 310 x 80mm
 Battery Capacity- 2 x 7A/h batteys

Connections

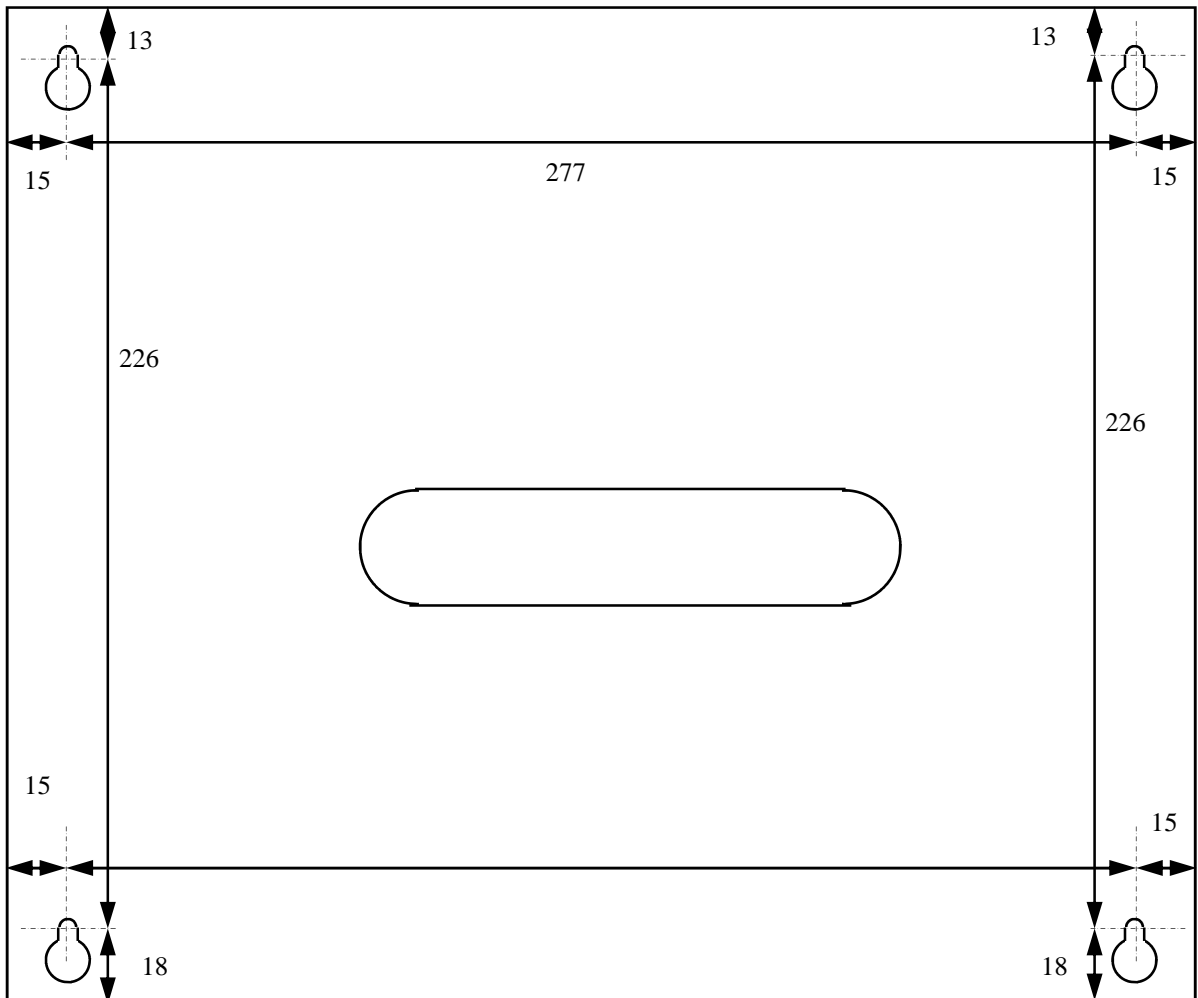
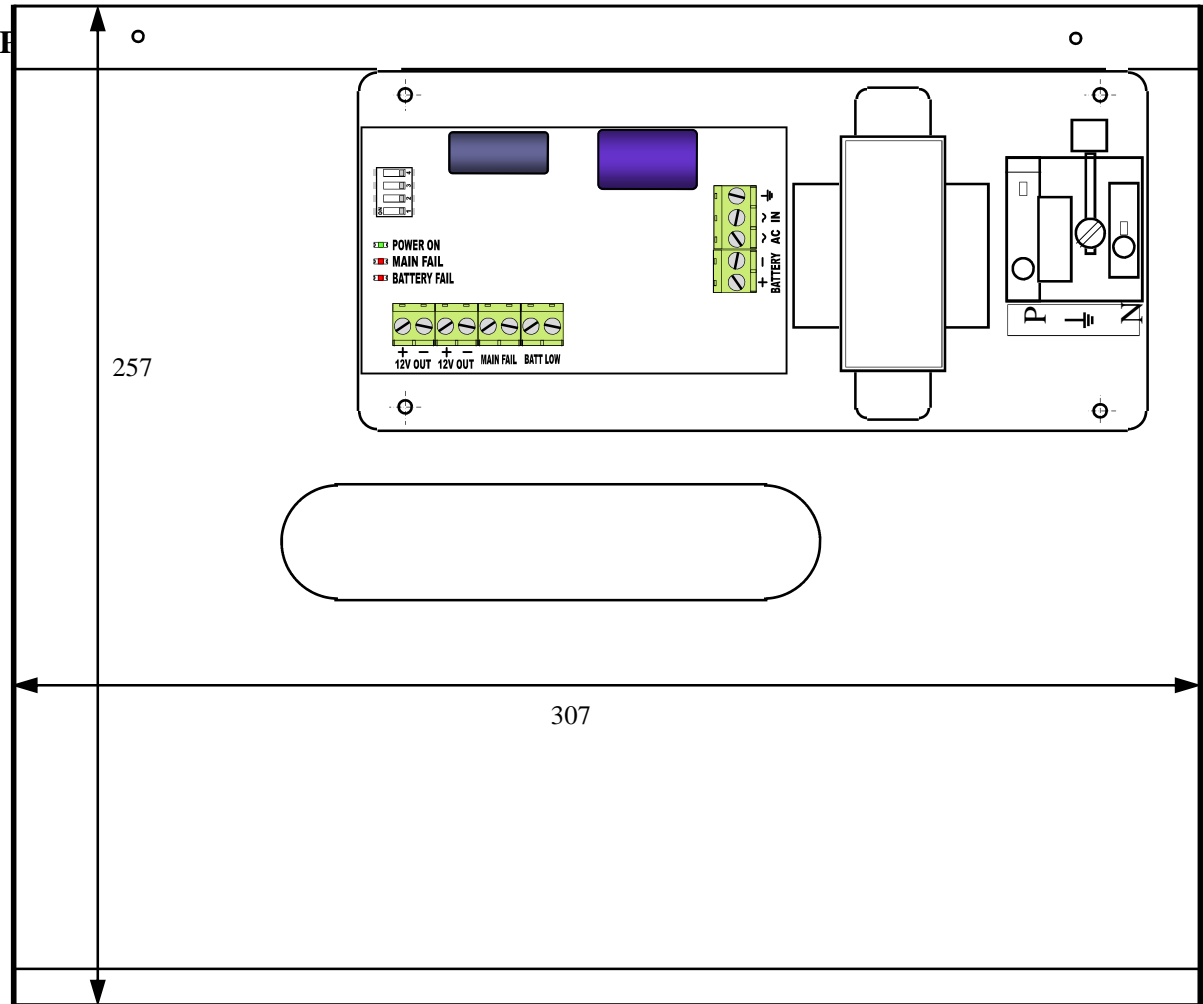
Input- 2.5mm² Screw term. block
 Out 1-2- 2.5mm Rising Clamp
 Battery- 2.5mm Rising Clamp
 Mains Fail- 2.5mm Rising Clamp
 Batt. Fail- 2.5mm Rising Clamp

Accessories Supplied

-Battery Leads
 -Cabinet Screws

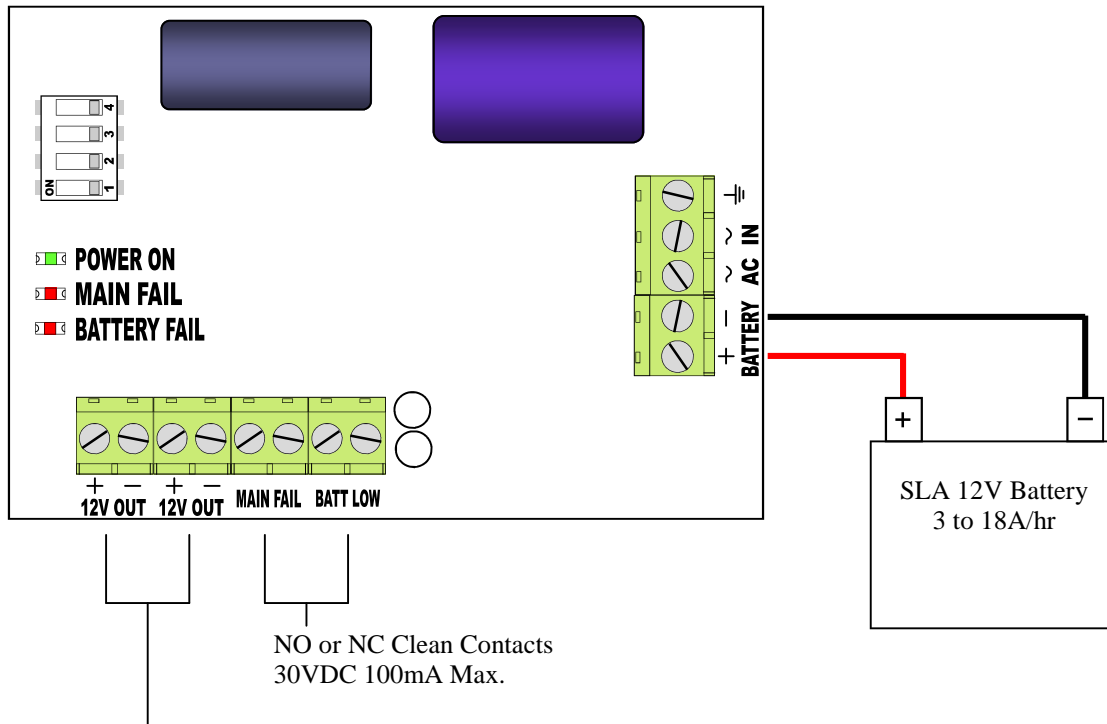
Manufactured By

-Arrowhead Alarm Product ltd
 -344b Rosedale Rd
 -Albany
 -Auckland
 -New Zealand
 -09-414-0085



PSU1B SM Wiring & Features

- Battery Backup,
- Current Limit,
- Low Voltage Disconnect,
- Mains & Dynamic Battery Monitoring



Each 13.8VDC Outlet is protected by a 1.5Amp PTC self resetting fuse.

Dipswitch Options:

Dipswitch	Option
1	Off 1.5 Amp Current Limit (Only use this option for PSU1 SM model)
	On 3.0 Amp Current Limit (Do Not Use)
2	Off 250mA Max. Battery charge Current (Recommended Battery 3Ah to 9Ah)
	On 500mA Max. Battery charge Current (Recommended Battery 7Ah to 18Ah)
3	Off Instant Mains Fail
	On 15 minute Delay on Main Fail
4	Off Mains & battery output are Fail Safe (NC)
	On Mains & battery output are Fail Secure (NO)

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