



# POWER SUPPLIES

## BOXED POWER SUPPLY – ABS ENCLOSURE



**BOXED POWER SUPPLY  
IN ABS ENCLOSURE**

### DESCRIPTION

The PSU2A-ABS power supply is housed in an ABS enclosure with a snap-on lid that is secured in place by two machine screws. Cable entry points and wall mounting holes are provided. The ABS enclosure will easily accommodate 7 Ah batteries.

External LED indications are provided for AC Input On; 24VDC Output On; 24VDC Overload/Fault; and Supply Fault. Additional system status LEDs and fault indication LEDs are provided internally on the PSU board.

Two potential free fault relays are provided; one for the indication of the absence of the AC input and the other to indicate a general fault.

The output voltage is protected from an overload condition. If the current draw reaches maximum, this output will automatically shut down and auto-reset once the overload condition is removed.

The input circuit also has built-in surge protection.

### FEATURES

- Modern switch-mode design
- Efficiency up to 85%
- Wide input range 100–250VAC
- Continuous short circuit protection with auto recover
- Over voltage protection
- LED indications
  - AC Input On
  - 24VDC Output On
  - 24VDC Overload / Fault
  - Supply Fault
- EN54 Compliant





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### SPECIFICATIONS

AC Input Supply Voltage	100–250 VAC
Power Rating	50 Watts
AC Supply Current	1 A fused
Battery Input	Yes
Battery Charge Capacity	7 Ah (EN54 compliant)
Battery Charge Current	500 mA max
Batteries Monitored for Disconnect & Failure	Yes
Battery Deep Discharge Protection	Yes
Output Voltage	27 VDC, regulated
Load Current	1.2 A max continuous.
Boost Mode	1.2 A to 1.8 A. Continuous but no battery charging.
Overload Mode	Above 1.8 A. 10 Minutes only.
Common Fault Relay	Yes
AC Input Fail Relay	Yes
Overload Protection	Yes, Auto-reset
Panel Indicators	AC Input On; 24 VDC Output On; 24 VDC Overload / Fault; Supply Fault
PCB (LED) Internal Indicators	AC Fault; Output Fault; Charger Fault; Battery Fault; Earth Fault; Load Test; CPU Running
Weight (excl Batteries)	1.80 kg
Dimensions mm (L x H x D)	330 x 270 x 125

### ORDERING INFORMATION

Product Code	Product Description
PSU2A-ABS	Boxed PSU, 100-250 VAC to 24 VDC, 2 A Regulated, ABS Enclosure
PSU2A-L	Boxed PSU, 100-250 VAC to 24 VDC, 2 A Regulated, Large Metal Enclosure
PSU2A-WS	Boxed PSU, 100-250 VAC to 24 VDC, 2 A Regulated, Weatherproof Enclosure

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