



An Economic Power Supply Unit selected to suit the TraceTek range of liquid leak detection equipment with continuous full Current-to-Load available for battery charging. 'Engineer Friendly' for easy installation and maintenance. Reliable - for low maintenance and operational costs.

### Overview

The model PSU24-1 Power Supply Unit will provide 27.6Vdc at a maximum of 1a. When fitted with an optional rechargeable battery, the unit provides a standby facility during mains failure. A fault indicator and mains present indicator are fitted, as is a battery disconnect feature to protect the rechargeable battery from over discharge.

### Operation

The unit is factory adjusted to provide a 27.6Vdc output. The mains present indicator is a green LED and the red LED pulses if the mains supply fails or if the output fuse blows. During mains failure the load will be supplied from the rechargeable battery. The battery must be connected correctly to prevent damage. An automatic disconnect circuit will operate if the battery voltage becomes too low. Upon restoration of the mains supply the battery will be recharged. Should, however, a battery be fitted or replaced with one that has been damaged or over discharged the PSU will not recharge. This unit must be used with DC appliances only.

### IND Output

Open collector output 0v 100 mA normally. Open circuit upon mains or output failure. Also open circuit if battery is short circuit.

### Technical Information

|                             |  |
|-----------------------------|--|
| Enclosure:                  | Robust steel box 330mmL x 275mmH x 80mmW   |
| Enclosure rating:           | IP41 excluding rear face   |
| Colour:                     | White powder coated  |
|                             | Mains input: 230Vac 50Hz -15% +10%   |
| PSU output total:           | 1A @ 27.6Vdc with rechargeable battery fitted  |
| Maximum battery size:       | 2 x 7Ah 12V Lead Acid. Battery guaranteed - 2 years  |
| Battery Disconnect Voltage: | 21Vdc Nominal  |
| Ripple:                     | 50mV pk - pk max @ 230V +/-10%<br>600mV pk - pk max @ 230V - 15%   |
| Supply:                     | Continuous supply at full rated output   |
| Current:                    | Full current-to-load plus up to 0.5A available for battery charging  |
| Indication:                 | Comprehensive indication of battery, mains and fault status  |
| Overload protection:        | Electronic overload protection (remove the 5A qualification)   |
| Battery Protection:         | Battery Deep Discharge Protection disconnects battery when terminal voltage reaches 21V  |
| Compliant to:               | BSEN 60950:2000 BSEN 50081-1:1992 BSEN50130-4:1996 BSEN 55022:1998<br>BSEN 61000-3-2:1995 BSEN 61000-3-3:1995 BSEN 61000-4-2:1995<br>BSEN 61000-4-3:1997 BSEN 61000-4-4:1995 BSEN 61000-4-5:1995<br>BSEN 61000-4-6:1996 BSEN 61000-4-11:1994 |
| Optional:                   | Battery monitoring/fault signalling relay (available to special order)   |

### Ordering Information

|                   |   |
|-------------------|---|
| Catalogue number: | 3480 AT-PSU24-1 Power Supply Unit<br>3700 AT-BAT Replacement 12Vdc, 7Ah battery |
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