

A 4512 24V DC 12A Battery Backup Charger



Overview

Ideal for PA systems requiring battery backup.

This unique design incorporates an SCR controlled two stage high voltage charging circuit which provides protection against high voltage line transients. The two stage charging minimises the risk of sulphation of the battery plates, extending battery life.

Standby operation

The charger remains permanently connected to the batteries. The circuitry ensures boost voltage is reached quickly reducing electrolyte gassing to a minimum which improves battery life and performance.

Mains failure operation

In the occurrence of a 240V mains failure the voltage sensing circuitry automatically disconnects from the battery to prevent discharge back through the charger. The connected batteries are switched to the load output via relays. When the minimum voltage has been reached the batteries are automatically disconnected from the load outputs and returned to charge, if power is available.

Type of batteries

These units are designed specifically for use on sealed lead acid (SLA), gel type and standard vented lead acid batteries. In the occurrence of a 240V mains, failure the voltage sensing circuitry automatically disconnects from the battery to prevent discharge back through the charger.

About Redback® PA Products

Redback® products are proudly designed, engineered and manufactured in Australia.

Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 45 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

Key Features

- Australian made
- 10 year manufacturer warranty with local support
- Short circuit protection
- Electronic reverse polarity protection
- 2 stage charging
- 2 switched 50 Amp outputs
- Automatic boost and float voltages
- Precision control of boost and float voltage settings
- Battery Isolator/circuit breaker
- 24V DC Auxiliary outputs (maximum load 1 Amp)
- Digital battery voltage display
- Digital battery current display
- Charging mode status indicators
- Mains/battery/low battery status indicators
- 24V out status indicator
- Low voltage cut off to protect battery
- 2U 19" rack mount chassis
- Ideal for sealed lead acid batteries

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Rear Panel



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|----------------------------------|---------------------------|-------------------------|------------------------------------|
| 1 240V AC Input | 4 Mains fail contacts | 7 Load 1 Out - Negative | 10 Load 2 Out - Positive |
| 2 24V auxillary output terminals | 5 Battery voltmeter input | 8 Load 2 Out - Negative | 11 100A Resettable circuit breaker |
| 3 Low battery contacts | 6 Battery negative | 9 Load 1 Out - Positive | 12 Battery positive |

Specifications

Electrical	
Input voltage	240V AC 50Hz
Boost voltage	29.4V DC
Trickle voltage	27.6V DC
Boost current	12A
AC fuse protection	3A
Output Connectors	
Battery voltage	3.5 digit LCD
Trickle charge	Green LED
Boost charge	Yellow LED
Power on	Red LED
Controls	
Power on/off	Rocker switch
Mechanical	
A 4506/12 Dimensions	483W x 330D x 88H
Colour	Black
Weight	9kg