

Product Guide**A 4506** 24V DC 6A Battery Backup Charger**A 4512** 24V DC 12A Battery Backup Charger

24V DC Battery Backup Chargers



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.

Key Features

- ✓ Australian made
- ✓ 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

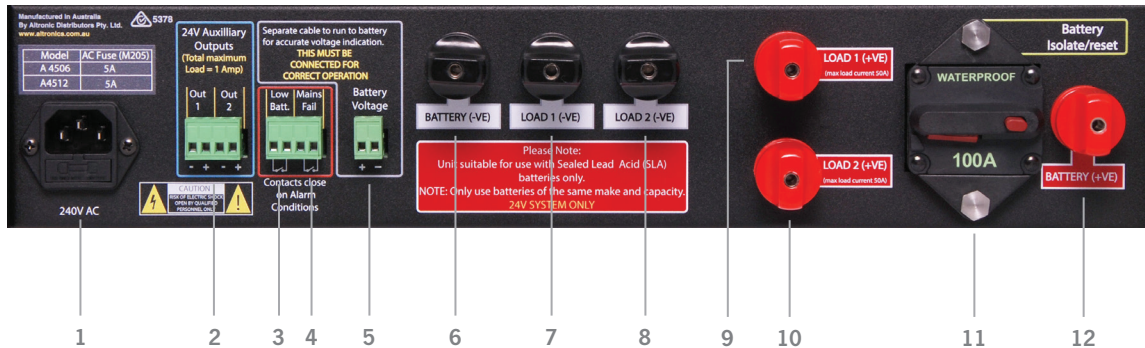
Product Guide

A 4506 24V DC 6A Battery Backup Charger

A 4512 24V DC 12A Battery Backup Charger



A 1607/13 Rear Panel



1	240V AC Input	5	Battery voltmeter input	9	24V DC Load 1 + output
2	24V Auxillary output terminals	6	24V DC Battery - input	10	24V DC Load 2 + output
3	Low battery switch contacts	7	24V DC Load 1 - output	11	100A Resettable circuit breaker
4	Mains fail switch contacts	8	24V DC Load 2 - output	12	24V DC Battery + input

Specifications

Electrical

Input voltage:	240V AC 50Hz
Boost voltage:	29.4V DC
Trickle voltage:	27.6V DC
Boost current:	(A 4506) 6A max (A 4512) 12A max
AC fuse protection:	(A 4506) 1.5A (A 4512) 3A

Display

Battery voltage	3.5 digit LCD
Trickle charge:	Green LED
Boost charge:	Yellow LED
Power on:	Red LED

Controls

Power on/off:	Rocker switch
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Mechanical

A 4506/12 Dimensions:	483W x 330D x 88H mm
Colour:	Black
Weight:	(A 4506) ≈ 7.5kg (A 4512) ≈ 9kg

Architect Specifications

A 4506

The battery charger shall be capable of charging 24V DC batteries at a maximum of 6 Amps. It shall be suitable for charging vented lead acid, sealed lead acid, and gel technology batteries. It shall have boost charging voltage of 29.4V DC and float voltage of 27.6V DC. It shall have protection against reverse polarity connection and protection against output short circuiting.

The battery charger shall be capable of connecting batteries to an amplifier via 2 heavy duty 50 Amp terminals, and have monitoring circuitry such that the batteries shall automatically disconnect when maximum permissible discharge voltage of 22V is reached. Power, boost charging and float charging shall be indicated by front panel mounted LEDs. A digital battery voltage display meter shall be mounted on the front panel.

The battery charger shall be housed in a high quality 2RU metal chassis suitable for rack mounting. The battery charger shall be a REDBACK model A 4506.

A 4512

The battery charger shall be capable of charging 24V DC batteries at a maximum of 12 Amps. It shall be suitable for charging vented lead acid, sealed lead acid, and gel technology batteries. It shall have boost charging voltage of 29.4V DC and float voltage of 27.6V DC. It shall have protection against reverse polarity connection and protection against output short circuiting.

The battery charger shall be capable of connecting batteries to an amplifier via 2 heavy duty 50 Amp terminals, and have monitoring circuitry such that the batteries shall automatically disconnect when maximum permissible discharge voltage of 22V is reached. Power, boost charging and float charging shall be indicated by front panel mounted LEDs. A digital battery voltage display meter shall be mounted on the front panel.

The battery charger shall be housed in a high quality 2RU metal chassis suitable for rack mounting. The battery charger shall be a REDBACK model A 4512.