



South West Battery Charging Systems

DATA SHEET

MR2 Range of Open Chassis Battery Chargers

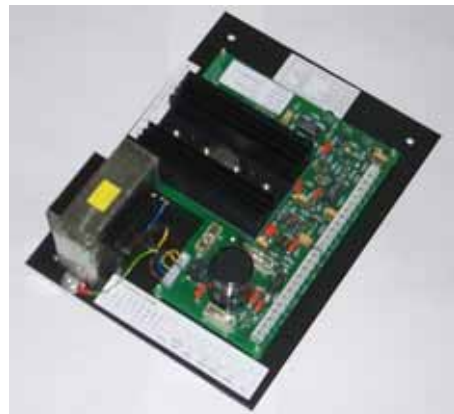
MK3 Version

manufactured for

Rickson ENGINEERING LIMITED

Standard Features

Output Ripple better than 50mV peak to peak
Automatic negative temperature coefficient
Short circuit protection
Output regulation better than 2%
Solid state electronics
No mechanical devices incorporated
Temperature compensation.
188-234Vac 50/60 Hz Single Phase
Output Current stability +/- 2% (No load to full load)
Output Voltage stability +/-1%
Voltage and current adjustments +/- 10%
Documentation to include test certificates



General Description

The MR2 range of open chassis battery chargers are manufactured in the United Kingdom to meet today's sophisticated specification for battery charging and switch tripping equipment. All systems incorporate a charging circuit compatible to the output required or the battery to be charged. They may be left unattended without fear of over voltage or over current. They incorporate a range of alarms to monitor battery state, input and output deviations, earth faults and any other system malfunction.

Circuit Description

This range of battery chargers function by monitoring the voltage and current levels on a continuous basis in order to maintain the output of the system to within prescribed parameters required by the batteries and the load. The output voltage and current is smoothed.

Operating Conditions

All systems are designed to operate in ambient temperatures of -20°C to + 45°C using only natural convection. They are designed to operate in a relative humidity of up to 99% non condensing. Higher temperatures and humidities can be accommodated if specified.

Mechanical Specifications

The units are designed for mounting within panels or racks. They are built on black epoxy painted steel plates of at least 3mm thickness.

Maintenance

All systems are designed to be maintenance free. Each charger is factory set for the application and the battery that it will charge and therefore no further adjustments are required.

Range

| Model Number | Output | Battery Capacity | Dimensions (mm) | Weight |
|--------------|------------------------|------------------|-----------------|--------|
| MR2-24v0 | 24VDC 120/800mA Max 2A | 4-10 Ampere-hour | 300 x 230 x 90 | 3Kg |
| MR2-30v0 | 30VDC 120/800mA Max 2A | | | |
| MR2-48v0 | 48VDC 120/800mA Max 2A | | | |

Add On Alarm Relays (available upon special request)

All models may be fitted with an add on alarm relay which can supply a remote signal. Maximum 3 alarm relays can be added for High Volts, Low Volts and Charger Fault.

Standards

The battery chargers are designed to meet the following national and international standards:

Low Voltage DC Power Supplies

IEC 61204-3 BS EN 61204-3
IEC 61204-6 BS EN 61204-6

Stabilized DC Power Supplies

IEC 60478-1 BS EN 5654-1
IEC 60478-2 BS EN 5654-2
IEC 60478-4 BS EN 5654-4

Information Technology Equipment Safety

IEC 60950-1 BS EN 60950-1
IEC 60950-21 BS EN 60950-21

Electromagnetic Compatibility (EMC)

IEC 61000-6--1 BS EN 61000-6--1
IEC 61000-6--2 BS EN 61000-6--2
BS EN 55014-1
BS EN 55014-2

Earthing BS 7430

Quality Assurance

All products are manufactured to ISO9001 quality standards



Warranty and Service

We guarantee our products under our return to base warranty for 12 months from the date of delivery to customer. We reserve the right to alter the specification in our continuing and on going pursuit of excellence in order to improve the product.

Further Information

Any further information on this or any other product in our range may be obtained from either of the addresses below. Technical help or advice on any DC power product is also available.

South West Battery Charging Systems

Unit 1, Oakley House, North Woodchester,
Stroud, Glos. GL5 5PQ.

United Kingdom

Telephone 0 (044) 1453 872 865

Fax 0 (044) 1453 872 065

Web Site: www.swbattery.co.uk

Email: info@swbattery.co.uk

Rickson ENGINEERING LIMITED

21st Floor, Sun Hing Industrial Building
46 Wong Chuk Hang Road

Hong Kong

Tel: (852) 3120 7500

Fax: (852) 3120 7511

URL: <http://www.rickson.com.hk>

Email: general@rickson.com.hk