

MCRII Battery Charger



Rugged phase-controlled thyristor technology.

Versatile constant voltage and constant current charging modes.

Large LCD Display (71mm x 40mm).

Comprehensive 11 parameter metering.

Battery capacity measurement.

Dual battery metering and testing facility.

Programmable battery current limit.

Precise adjustable temperature compensation.

Isolated RS485, Ethernet & USB-B.

Modbus RTU, Modbus TCP, SNMP, Internal Webpage.

Access facility software.

Full data logging.



With integral battery capacity measurement that can assess the health of the battery and the integrity of its connections, the MCRII series is undoubtedly the most advanced battery management system of its kind.

Incorporating dual battery management capabilities including automatic battery testing, the MCRII prolongs battery life in any application, and can be used with Lead Acid, Lithium and NiCad batteries. Highly reliable, robustly designed, with 25 years design life and advanced communication facilities that enable full remote monitoring of the system, the MCRII is state of the art.

Available in single and three phase, and using ultra rugged phase controlled technologies, this series is ideal for all industrial applications including substation battery systems and DC UPS.

MCR11 Battery Charger

TECHNICAL SPECIFICATIONS

Nominal Voltage	24V	32V	48V	110V	220V
Nominal Current	5-1000A	5-1000A	5-1000A	5-1000A	5-500A
Input Supply	Single phase 240V \pm 10% 50Hz \pm 5% for output power <5kVA				
Three Phase	415V \pm 10% 50Hz \pm 5% for output power >5kVA				
Output Voltage	9-16V	18-35V	24-46V	40-68V	88-150V 180-270V
Noise and Ripple	<2% specified at full load and without battery connected.				
Static Voltage Regulation	\pm 1% for 0-100% load variation, \pm 10% AC input voltage variation and 5% AC input frequency variation.				
Dynamic Voltage	5% for load variation of 10% to 100% or 100% to 10%				
Current Regulation	\pm 1%				
Protection	Input Circuit Breaker, Charger Output Fuse/Circuit Breaker, Charger Current Limit, Dual Battery Current Limit, AC Surge Suppression, Short Circuit Protection, Reverse Battery Polarity Protection				
Alarms	Mains Fail, Charger Fail, DC High, DC Low, Under/Over Voltage Trip, Earth Fault, Low Electrolyte, Battery Disconnected, Battery Fail (including high impedance), Battery Over Temperature, Blown Fuse, Common Alarm Relay, Common Alarm Buzzer *All alarms are user programmable*				
Metering	Charger Voltage, Charger Current, Load Voltage, Load Current, Battery 1 Charge/Discharge Current, Battery 2 Charge/Discharge Current, Battery Temperature, Battery Initial Impedance Battery Capacity, Battery Capacity Ratio *Meter accuracy 1%*				
Options	Voltage - free contacts for all alarms, Battery test facility, 3 Stage diode voltage limiter, DC distribution board				
Physical	Wall mount or free standing powder coated metal cabinet. *Dimensions depend on charger output rating and associated battery requirements*				
Environmental	0-60°C, up to 95% humidity				
Standards	AS 1955, AS 3000, AS 3100 AS 4044, AS 2069				
Serial Comm.	DNP3, TCP/IP, Web-server, RS485 Modbus, SNMP, USB - B.				
EMC	AS 2064-1997				
MTBF / MTTR	100,000 Hours / 4 Hours				
Efficiency	80 to 93% depending on nominal voltage and power rating				
Temperature Compensation	Programmable 3 - 6 mV / Cell / °C				
Audible Noise	< 55 dB				
Limp Home Feature	Continuous operation in the event of control failure				
Revert to Factory Settings	Reinstates all original factory settings				
Data Logging	3800 log entries				

