



### Main Features

- Industrial Applications
- 2 x 15A Array Current Input
- 1 x 15A Load Current Output
- Solid-state Switching
- Polycarbonate Enclosure
- Micro-controller Electronics
- Optional Metering (LCD Display)
- Wide Temperature Range
- Low Cost Unit

### Specification

System Voltages: 12V, 24V, 48V	Power Connections: 10mm <sup>2</sup> PCB Terminals
System Polarity: Positive or Negative Earth	Signal Connections: 2.5mm <sup>2</sup> PCB Terminals
Regulation: Three stage series regulation	Induced Lightning Protection
High Volts, Low Volts, Load Cut, & Aux Alarm	IP65 Polycarbonate Enclosure (250 x 175 x 100mm)
Battery Protection: Load Disconnect / Reconnect	Grey or Transparent Enclosure Cover
Temperature Compensation (External sensor)	4 x M25 glands for Battery Power, Array Input 1 & 2 and Load Output cables (9-17mm cable diameter)
Regulation, Switch, and Alarm Status LEDs	3 x M16 glands for Battery Voltage Sense, Battery Temperature Sense and Alarms (5-10mm cable diameter)
Disable Link (disconnects arrays and load)	Ambient Temperature range -10°C to +55°C
40A Battery Fuse, 20A Load Fuse	

### Set-points

Charge Controller Set-points	Unit	Fulmen	Vented	VRLA
Boost & Equalisation Regulation Voltage	(per cell)	2.45 V	2.40 V	2.30 V
Float Regulation Voltage	(per cell)	2.30 V	2.35 V	2.25 V
High Volts Alarm	(per cell)	2.50 V	2.45 V	2.40 V
Low Volts Alarm	(per cell)	1.95 V	1.90 V	1.90 V
Load Cut Alarm and Disconnect	(per cell)	1.90 V	1.80 V	1.80 V
Temperature Compensation Null Temp	°C	20°C	25°C	25°C
Temperature Compensation Rate	(per cell)	-5.0mV/°C	-5.5mV/°C	-3.3mV/°C

### Ordering

Product	System Voltage	System Polarity	Enclosure Cover	Battery Settings
MSR2-30	12V	PE (Positive Earth / Common Positive)	Grey	Fulmen
	24V	NE (Negative Earth / Common Negative)	Transparent	Vented
	48V			VRLA

**Example: MSR2-30 24V PE Transparent Cover VRLA Settings**