



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 ² PCB Terminals
System Polarity: Positive or Negative Earth	Signal Connections: 2.5mm ² 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

Details

Enclosure Dimensions:	250mm(W) x 175mm(H) x 74mm(D)	(Packed: 40 x 25 x 12mm)
Weight (approx.):	1.5kg	(Packed 1.8kg)
Manufacturer:	The Micha Design Company Ltd.	
Commodity Code:	9032 8900	
Country of Origin:	U.K.	
Temperature Sensor:	Included. (Standard length 10m.)	



Ordering

Part Number	Full Description	Metering	RS232	Lid
100 812	MSR2-30 12V NE Controller (No Metering)	No	No	Grey
100 813	MSR2-30 12V NE Controller (With Metering)	Yes	No	Grey
100 806	MSR2-30 12V PE Controller (No Metering)	No	No	Grey
103 473	MSR2-30 12V PE Controller (No Metering) Clear Lid	No	No	Transparent
100 807	MSR2-30 12V PE Controller (With Metering)	Yes	No	Grey
100 814	MSR2-30 24V NE Controller (No Metering)	No	No	Grey
100 815	MSR2-30 24V NE Controller (With Metering)	Yes	No	Grey
103 300	MSR2-30 24V NE Controller (With Metering) Clear lid	Yes	No	Transparent
102 954	MSR2-30 24V NE Controller (With Metering) RS232	Yes	Yes	Grey
100 808	MSR2-30 24V PE Controller (No Metering)	No	No	Grey
100 809	MSR2-30 24V PE Controller (With Metering)	Yes	No	Grey
103 482	MSR2-30 24V PE Controller (With Metering) RS232	Yes	Yes	Grey
100 816	MSR2-30 48V NE Controller (No Metering)	No	No	Grey
100 817	MSR2-30 48V NE Controller (With Metering)	Yes	No	Grey
100 810	MSR2-30 48V PE Controller (No Metering)	No	No	Grey
100 811	MSR2-30 48V PE Controller (With Metering)	Yes	No	Grey

When ordering, please advise any specific battery settings required.