

## High Voltage 100A LCD MPPT Solar Regulator

The Microcare Maximum Power Point Tracker Regulator is designed to interface between the solar panel and the batteries. The tracker will always find the optimum power point of the solar panel system to ensure that maximum power is extracted from the solar panel and put into the batteries. Using this system up to 30% more power can be extracted from the solar panel than using shunt or series PWM regulators. The MPPT charge controller will deliver the highest charge current possible for a given set of operating conditions. The ability to step down a high voltage solar array to a low voltage battery can save you money by reducing the size of the wire required and making the installation simpler and faster.



- Input panel voltage 200V Max
- 48V Battery pack
- Circuit Breaker protection - Full input and output protection
- Electronic current limiting.
- 4 Line LCD Display: 1. Battery Voltage, 2. Charge Mode (Equalize, Boost and Float) showing Charge Current, 3. Panel Voltage and 4. Output Power from the Panels
- Data Logger: 24hr Average and 63 day logger
- Programmable features
- Accessories: Programmable Relay
- Peak efficiency greater than 96%
- Advanced constant Power Point Tracking algorithm
- Available with Comms port for Wi-Fi access

Output Current Rating	Available in 100A only
Nominal Battery Voltage	48V Battery pack
PV Input Voltage	Open Circuit Absolute Maximum 200V <sub>DC</sub>
Charge Algorithm	5-stage 3-level (Equalize/Boost/Float)
Equalize Voltage	Charges to 60V per battery (Timed or Full)
Boost Voltage	Default charges to 14.5V (Set capable)
Float Voltage	Default 13.8V per battery (Set capable)
Power Conversion	DC/DC Switch Mode
Voltage Step Down	Charges a lower voltage battery from a higher voltage PV array
Power Consumption	Less than 1W
Environmental Rating	0 – 40°C
Input	100A DP Isolator
Output Connection	100A DP Isolator
Cabinet Dimension	350mm (L) x 220mm (W) x 130mm (H)
Weight	5kg