

Breakerless LCD MPPT Solar Regulator

The Microcare Maximum Power Point Tracker Regulator is designed to charge the batteries from a solar panel. 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.



- Automatic selection of Battery voltage (12 - 48V)
- Input panel voltage (20-150Voc)
- 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, Wi-Fi module
- Peak efficiency greater than 96%
- Advanced constant Power Point Tracking algorithm
- Available with Comms Port for Wi-Fi access

Output Current Rating	20, 40 & 60A available
Nominal Battery Voltage	Multi-Voltage (Automatic/Manual selection of voltage - 12/24/36/48V)
PV Input Voltage	Open Circuit Absolute Maximum 150V _{DC}
Charge Algorithm	5-stage 3-level (Equalize/Boost/Float)
Equalize Voltage	Charges to 15V 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	Can charge a lower voltage battery from a higher voltage PV array
Protection	Input & Output Fuse Protection
Power Consumption	Less than 1W
Environmental Rating	0 – 40°C
Cabinet Dimension	20/40A 210mm (L) x 220mm (W) x 110mm (H) 60A 300mm (L) x 220mm (W) x 120mm (H) 100A 350mm (L) x 220mm (W) x 130mm (H)
Weight	20/40A 3kgs / 60A 4kg / 100A 5kg