

# J&J Electronics

Manufacturers and Distributors of Electronic Equipment

## Microcare Maximum Power Point Tracker (MPPT)

Microcare MPPT Solar Charge Controller is proudly South African. The Microcare MPPT utilizes PWM and integrated technology to provide greater than 96% efficiency from your solar panels. The actual charge current increase you will see varies primarily with module temperature and battery voltage. In comfortable temperatures, current increase typically varies between 10 to 25%, with 30% or more easily achieved with a discharged battery and cooler temperatures.

What you can be sure of is that the Microcare 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.

### Features:

- Automatic selection of Battery voltage (12v-48v)
- Automatic selection of Panel voltage (20voc-150voc)
- Circuit Breaker protection - Full input and output protection
- 4 Line LCD Display
  - Battery Voltage
  - State of Charge (3 stage Charger)
  - Panel Voltage
  - Output Power from Panels
- Data Logger
  - 24hr Average
  - 8 day logger
- Programmable features
- Battery Temperature Meters (Accessory)
- >96% efficiency



**MICRO CARE**

## Specifications:

Output Current Rating	20, 40 or 60amp available
Nominal Battery Voltage	Multi-Voltage (Automatic selection of voltage - 12/24/36/48v battery set)
PV Input Voltage	Absolute Maximum 150VDC
Charge Algorithm	3-stage Equalize/Boost/Float
Equalize Voltage	>12v charges to 15v per battery + 1hr
Boost Voltage	Charges to 14.5v When charge current is < 10amps then 1hour
Float Voltage	13.8v per battery
Power Conversion	DC/DC Switch Mode
Output Efficiency	97% Typical @ 48 Volts 40 Amps Output
Voltage Step down Capability	Can charge a lower voltage battery from a higher voltage PV array.
Status display	4 Line LCD Screen with Backlight <ul style="list-style-type: none"> <li>• Battery Voltage</li> <li>• State of Charge (Equalize/Boost/Float)</li> <li>• Panel Voltage</li> <li>• Output Power</li> </ul>
Data Logger	<ul style="list-style-type: none"> <li>• 24hr Average</li> <li>• 8 day history</li> </ul>
Power Consumption	Less than 1watt
Environmental Rating	0 – 40°C
Input	63amp DP Input Isolator
Output Connection	20, 40 or 60amp DP Circuit Breaker
Protection System	<ul style="list-style-type: none"> <li>• Lighting Protection</li> <li>• Reverse polarity Panel/Battery</li> </ul>
Warranty	12 months
Cabinet Dimension	20/40amp 210mm (L) x 220mm (W) x 110mm (H) 60amp 300mm (L) x 220mm (W) x 120mm (H)
Weight	20amp and 40amp 3kgs / 60amp 4kg

- Please contact J&J Electronics for your retail and distributor prices
- All Microcare Products come with a 2 year warranty
- Microcare products are sold through authorized Microcare distributors

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