


Features:

- Automatic selection of Battery voltage (12v-48v)
- Automatic selection of Panel voltage (20 voc-150 voc)
- Full input and output protection Via Circuit Breakers
- 4 Line LCD Display for Voltage, Charge and PV information.
- Data Logger - 24hr Average / 8 day logger
- Programmable features
- >96% efficiency

The MPPT40A Solar Charge Controller is proudly South African. The MPPT40A 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 MPPT40A 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.

Output Current Rating:	40 Amp
Nominal Battery Voltage:	Multi-Voltage (Automatic/Manual selection of voltage - 12/24/36/48v battery set)
PV Input Voltage:	Open Circuit Max 150VDC
Charge Algorithm:	3-stage Equalize/Boost/Float Equalize Voltage: >12v charges to 15v per battery + 1hr Boost Voltage: Charges to 14.5v switches when charge current is < 10amps then 1hour Float Voltage: 13.8 Vdc / 27.6 Vdc / 55.2 Vdc
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 Battery Voltage State of Charge (Equalize/Boost/Float) and Charge Current. Panel Voltage Output Power
Data Logger:	24hr Average / 8 day history
Power Consumption:	Less than 1watt
Environmental Rating:	0 – 40 Degrees Celcius
Protection:	Lighting Protection Reverse polarity Panel/Battery Input: 40 Amp Double Pole Input Circuit Breaker Output Connection: 40 Amp Double Pole Circuit Breaker
Warranty:	12 months
Cabinet Dimension :	210mm (L) x 220mm (W) x 110mm (H)
Weight:	3kg

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