



**CLEAN
ENERGY**

T80

MPPT Battery Charge Controller

High speed MPPT regulator

Process up to 5300 watts of PV power

80 Amps continuous output at 40°C

Solar array up to 200 Voc

Charges 12, 24, 36 or 48V batteries

Parallel stacking up to 16 units

Built-in battery energy monitor

5 years warranty

Manufactured in Australia



SPECIFICATIONS

Output Current	80 amps Continuous @ 40°C
Battery Voltages	12, 24, 48 V DC
Max PV Input	70 amps
Max PV Array	5300 Watts
Max PV Open Circuit Voltage (VOC)	T80 = 200 Vdc
Warranty	5 Years Warranty
Charge Regulation	Programmable set points for Bulk, Absorption, Float with Auto or Manual Equalize.
MPPT Mode	High speed algorithm recalculates the maximum power point each 2mS.
Battery Temperature Compensation	5.0 mV °C per 2 volt cell (Temp. Comp. Sensor Included at no extra cost).
Power Conversion Efficiency	97% to 99% depending on array to battery voltage ratio (Highest efficiency at 60V array into 48V battery).
Unit Dimension (L x W x D)	387 mm x 216 mm x 111mm
Unit Weight	7.3 kg
Shipping Weight	10.4 kg
Shipping Dimensions	457 mm x 304 mm x 330 mm
Conduit Knockouts	Generous cable access space and combi 20mm 25mm 32mm knockouts.
Environmental Rating	Indoor Type 1 (not intended for use in extremely damp or humid locations).
Operating Temperature Range	Min - 40°C to max 55°C. Output current is automatically reduced above 40°C ambient.
Display	Built-in back-lit 4 line LCD display (standard). Wired remote display (optional).
Status Reporting	LCD Status screen displays: Input and Output volts and amps, Battery volts and amps, Charge mode and State of Charge (using external 50 mV/500 A shunt).
Data Logging	Logs energy harvested for 90 days. Data screens display kW hours, Watt hours, Amp hours and Float hours.
Energy Monitor	LCD shows: Battery SOC (state of charge) displayed with a fuel gauge style 20 segment bargraph plus percentage digital readout. E.g. E XXXXXXXXXX.....F SOC 90%. Battery shunt included at no extra cost.
Aux Relays	2 x Independent Normally Open 50V DC @ 0.5 Amp relays, each fully programmable (inc. hysteresis) using SOC, voltage, current, temperature or time.
Specifications Notice	Specifications are subject to change without notice.

