

MPPT CHARGE CONTROLLER

MX60



The OutBack MX60 Maximum Power Point Tracking (MPPT) charge controller enables your PV system to achieve its highest possible performance.

Rated for up to 60 amps of DC output current, the OutBack MX60 can be used with battery systems from 12 to 60 vdc with PV open circuit voltage as high as 125 vdc. The MX60's setpoints are fully adjustable to allow use with virtually any battery type, chemistry and charging profile.

The OutBack MX60 allows you to use a higher output voltage PV array with a lower voltage battery - such as charging a 24 vdc battery with a 48 vdc PV array. This reduces wire size and power loss from the PV array to the battery/inverter location and can maximize the performance of your PV system.

The OutBack MX60 comes standard with an easy to use and understand display of the PV system's performance. The four line, 80 character, backlit LCD display is also used for programming and monitoring of the system's operation.

The OutBack MX60 can also be connected to the OutBack MATE system controller and display to allow monitoring of up to eight MX60 controllers from a distant location - up to 300 feet away. The MATE also includes an opto-isolated RS232 port for connection to a PC computer for data logging and system monitoring.

SPECIFICATIONS	MX60
Output Current Rating	60 amps DC Maximum at 12, 24 or 48 VDC
Nominal Battery Voltage	12, 24, 32, 36, 48, 54 or 60 VDC (programmable)
PV Open Circuit Voltage	125 VDC Maximum
Standby Power Consumption	Less than 1 watt typical
Charging Regulation Methods	Five Stage: Bulk, Absorption, Float, Silent, Equalization
Voltage Regulation Setpoints	13 - 80 VDC
Equalization Voltage	Adjustable 1.0 to 5.0 VDC above Bulk Setpoint
Temperature Compensation	Programmable slope -2.0mV/°C/Cell to -5.0mV/°C/Cell
Voltage Step-Down Capability	Can charge a 12 or 24 VDC battery from a 48V nominal PV array
Power Conversion Efficiency	99.1% @ 40 amps Output 97.3% @ 60 amps Output
Digital Display	4 line 80 character backlit LCD Display
Remote Interface	RJ 45 Modular Connector CAT 5 Cable 8 wire
Operating Temperature Range	-40 to 60°C Power derated above 25°C
Environmental Rating	Indoor Type 1
Conduit Knockouts	Two 3/4 - 1" on the back; One 1" - 1 1/2 " on each side; Two 1" - 1 1/2" on the bottom
Warranty	Two years parts and labor Optional Extended Warranty
Dimensions	Enclosure: 14.5 " H x 5.75" W x 5.75" D Shipping box: 17.75" H x 10" W x 7" D
Shipping Weight	12 lbs. - 5.4 kg

Preliminary - Specifications subject to change without notice