MX60

Maximum Power Point Tracking Charge Controller





Increases PV Array Output by up to 30%

Active Maximum Power Point Tracking

Battery Voltages from 12 VDC to 60 VDC

PV Arrays up to 150 VDC Open Circuit

Programmable Auxilary Control Output

Built-in 64-days of Data Logging

Negative or Positive Ground Systems

Standard 2 Year Warranty



sizing of your solar array. Te ability to step-down a high voltage solar array to a low voltage battery can save you money by reducing the size of wire required and making the installation simpler and faster.

All of the MX6Os status information is displayed on the large built-in 3.1" (8 cm) backlit LCD screen and OutBack's exclusive system networking allows your MX6O to communicate with the rest of your OutBack products for complete integration and high performance operation. Monitoring the performance of your solar array investment is easy through the use of the built-in 64-day data logging system or via the MATE and optional PC sof ware (available separately).

T e MX60 is the only choice when you demand a high performance, e cient and customizable charge controller for your advanced power system.

MX60 Specifications

Nominal Battery Voltages	12, 24, 32, 36, 48, 54 or 60 VDC (Single model - selectable via field programming)
Output Current	60 amps maximum with adjustable current limit for smaller systems
Maximum Solar Array Size	12 VDC systems 800 Watts / 24 VDC systems 1600 Watts / 48 VDC systems 3200 Watts
PV Open Circuit Voltage (VOC)	150 VDC absolute maximum coldest conditions / 140 VDC start-up and operating maximum
Standby Power Consumption	Less than 1 Watt
Power Conversion Efficiency Typical	98% at 60 amps with a 48 V battery and nominal 48 V solar array
Charging Regulation	Five Stages: Bulk, Absorption, Float, Silent and Equalization
Voltage Regulation Set points	10 to 80 VDC user adjustable with password protection
Equalization Voltage	Up to 5.0 VDC above Absorb Set point Adjustable Timer - Automatic Termination when completed
Battery Temperature Compensation	Automatic with optional RTS installed / 5.0 mV per °C per 2V battery cell
Voltage Step-Down Capability	Can charge a lower voltage battery from a higher voltage PV array
Programmable Auxilary Control Output	12 VDC output signal which can be programmed for different control applications (Maximum of 0.2 amps DC)
Status Display	3.1" (8 cm) backlit LCD screen with 4 lines with 80 alphanumeric characters total
Remote Interface	Proprietary network system using RJ 45 Modular Connectors with CAT 5e Cable (8 wires)
Data Logging	Last 64 days of operation - amp hours, watt hours and time in float for each day along with total accumulated
	amp hours, kW hours of production
Hydro / Wind Turbine Applications	Consult factory for approved turbines
Positive Ground Applications	Requires two pole breakers for switching both positive and negative conductors on both solar array
	and battery connections (HUB-4 and HUB-10 are not recommended for use in positive ground applications)
Operating Temperature Range	Minimum -40° to maximum 60° C (Power capacity of the controller is derated when above 25° C)
Environmental Rating	Indoor Type 1
Conduit Knockouts	Two $\frac{1}{2}$ " and $\frac{3}{4}$ " on the back; One $\frac{3}{4}$ " and 1" on each side; Two $\frac{3}{4}$ " and 1" on the bottom
Warranty	Standard 2 year / Optional 5 year
Weight Unit	11.6 lbs (5.3 kg)
Shipping	14 lbs (6.4 kg)
Dimensions (H x W x L) Unit	13.5 x 5.75 x 4" (40 x 14 x 10 cm)
Shipping	18 x 11 x 8" (46 x 30 x 20 cm)
Options	Remote Temperature Sensor (RTS), HUB and MATE



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