## **MX60**

Maximum Power Point Tracking Charge Controller





**Active Maximum Power Point Tracking** 

High Operating Efficiency

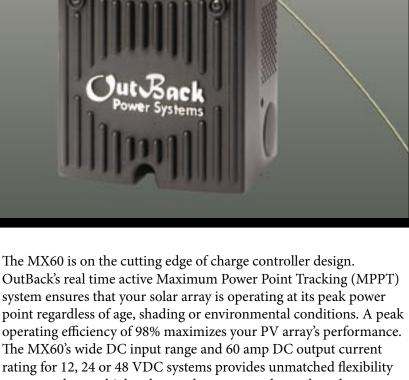
Battery Voltages from 12 VDC to 60 VDC

PV Arrays up to 150 VDC Open Circuit

**Negative or Positive Ground Systems** 

Built-in Data Logging

Standard 2 Year Warranty



in the wiring as well as the sizing of your solar array. The 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 MX60's status information is displayed on the large built-in 3.1" (8 cm) backlit LCD screen and OutBack's exclusive system networking allows your MX60 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 data logging system or via the MATE and optional PC software (available separately).

The MX60 is the only choice when you demand a high performance, efficient 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			
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 Compensa	tion	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			
Power Conversion Efficiency	Typical	98% at 60 amps with a 48 V battery and nominal 48 V solar array			
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			



## Main Office:

19009 62nd Avenue NE Arlington, WA 98223 USA Phone: (360) 435.6030 Fax: (360) 435.6019

## European Office:

Urb. Garraf II Buzón 214 08860 Les Botígues de Sitges Barcelona, ESPAÑA Phone: (+34) 600.843.845

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www.outbackpower.com