

MX60

Maximum Power Point Tracking Charge Controller

OutBack
Power Systems



- 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 Auxiliary Control Output
- Built-in 64-days of Data Logging
- Negative or Positive Ground Systems
- Standard 2 Year Warranty

The MX60 is on the cutting edge of charge controller design. OutBack's real time active Maximum Power Point Tracking (MPPT) system ensures that your solar array is operating at its peak power point regardless of age, shading or environmental conditions – increasing the performance by up to 30%. The MX60's wide DC input range and 60 amp DC output current rating for 12, 24 or 48 VDC systems provides unmatched flexibility 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" (8cm) 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 64-day 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 | |
| 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 Auxiliary 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 ½" and ¾" on the back; One ¾" and 1" on each side; Two ¾" 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 Botigues de Sitges
 Barcelona, ESPAÑA
 Phone: (+34) 600.843.845

www.outbackpower.com

Available From:

MANBLAN™
 Москва, Чечерский проезд, 3, 5
 +7 499 755 92 68 +7 495 502 65 84
manblan.ru, info@manblan.ru