**System Display and Controller**

**MATE & MATE2**
The MATE system display and controllers are complete management tools for your OutBack Power system. Through the use of a single MATE you can remotely manage and monitor multiple inverter/chargers, MX60s and any future OutBack power conversion and control products.

The MATE and MATE2 are packed full of features to make system management simple. The easy-to-read 3.1” (8 cm) LCD is backlit for dark operating conditions. Four soft keys allow easy context-based navigation of menus and functions. Two hot keys give immediate access to AC and inverter functions.

A built-in clock and calendar function enables timer based programming of inverter and charger operation. This permits you to set the system to work with time-of-day power rates or to limit a generator’s run time to a specific time period of the day or week. All of your settings are stored in permanent memory to eliminate the need to reprogram in the event of a system shutdown or battery replacement. The MATE and MATE2 include a RS232 port with DB9 jack for connection to the serial port of a PC computer. Through the use of optional WinVerter software you can perform such operations as data logging and graphical display of the system’s operation and performance. The MATE system display and controller is surface mounted while the MATE2 is flush mountable in a wall cut-out.

**MATE2M**
The MATE2M is the same technology as the MATE and MATE2 but is designed to be used with your M-series inverter/chargers in mobile applications. Incorporating a more simplified menu, the settings needed for mobile power system management are more quickly accessed. A flush mount case design makes installation in boats and RVs more compact and attractive.

*Communication with multiple products requires optional HUB*

**MATE Specifications**

<table>
<thead>
<tr>
<th><strong>MATE</strong></th>
<th><strong>Grey</strong></th>
<th>Surface mount with RS232</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATE2</strong></td>
<td><strong>Black</strong></td>
<td>Flush mount with RS232</td>
</tr>
<tr>
<td><strong>MATE2M</strong></td>
<td><strong>Black</strong></td>
<td>Flush mount without RS232</td>
</tr>
<tr>
<td><strong>Interface Display</strong></td>
<td></td>
<td>3.1” (8 cm) backlit LCD - four line, 80 alpha numeric characters</td>
</tr>
<tr>
<td><strong>Control Keypad</strong></td>
<td></td>
<td>6 backlit silicone keys - dedicated inverter and AC input keys</td>
</tr>
<tr>
<td><strong>Status Indicators</strong></td>
<td></td>
<td>Two LED Status Indicators - AC input (yellow), inverting (green)</td>
</tr>
<tr>
<td><strong>Communication Protocol</strong></td>
<td></td>
<td>Proprietary OutBack Multi-drop using an OutBack HUB4 or HUB10</td>
</tr>
<tr>
<td><strong>Interconnection Cabling</strong></td>
<td></td>
<td>Standard CAT 5 network cable with RJ45 modular jack - 50’ (5 m) included</td>
</tr>
<tr>
<td><strong>PC Computer Interface</strong></td>
<td></td>
<td>RS232 opto-isolated DB9 jack 9600 baud serial communication</td>
</tr>
<tr>
<td><strong>Microprocessor</strong></td>
<td></td>
<td>16 MHz low power consumption version</td>
</tr>
<tr>
<td><strong>Setpoint and Data Memory</strong></td>
<td></td>
<td>32K non-volatile flash RAM</td>
</tr>
<tr>
<td><strong>Clock / Calendar</strong></td>
<td></td>
<td>On-board real time clock with battery backup</td>
</tr>
<tr>
<td><strong>Environmental Rating</strong></td>
<td></td>
<td>Indoor Type 1</td>
</tr>
<tr>
<td><strong>Maximum Cable Length</strong></td>
<td></td>
<td>1000’ (300 m)</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td></td>
<td>Standard 2 year / Optional 5 year</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td><strong>Shipping</strong></td>
<td>1 lb (.5 kg)</td>
</tr>
<tr>
<td><strong>Dimensions (H x W x L)</strong></td>
<td><strong>Shipping</strong></td>
<td>5.75 x 4.25 x 2” (15 x 11 x 5 cm)</td>
</tr>
</tbody>
</table>