Quick Start Guide

Models:
- **FLEXmax 80**: 80 amps maximum continuous output current (up to 40°C without thermal derating)
- **FLEXmax 60**: 60 amps maximum continuous output current (up to 40°C without thermal derating)

Features:
- Maximum Power Point Tracking
- Supports 12, 24, 36, 48, and 60 Vdc battery voltages
- Backlight display screen (LCD) with 80 characters (4 lines, 20 characters per line)
- Last 128 days of operational data logging
- Voltage step-down capability allowing a higher PV array voltage configuration
- Manual and automatic equalize cycles

Screen Versions:
- English
- Spanish
- **Australian** (English with different default settings)

Maximum PV Input Wattage per Charge Controller

<table>
<thead>
<tr>
<th>Battery Bank Voltage</th>
<th>Maximum PV Input Wattage for the FLEXmax 80</th>
<th>Maximum PV Input Wattage for the FLEXmax 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Vdc</td>
<td>1000 W</td>
<td>750 W</td>
</tr>
<tr>
<td>24 Vdc</td>
<td>2000 W</td>
<td>1500 W</td>
</tr>
<tr>
<td>36 Vdc</td>
<td>3000 W</td>
<td>2250 W</td>
</tr>
<tr>
<td>48 Vdc</td>
<td>4000 W</td>
<td>3000 W</td>
</tr>
<tr>
<td>60 Vdc</td>
<td>5000 W</td>
<td>3750 W</td>
</tr>
</tbody>
</table>

**IMPORTANT**: Example only. Actual wiring may vary. All configurations must comply with local and national electric codes. Consult your local electric authority to ensure compliance.

Photovoltaic Array (PV)

**NOTE**: See the FLEXmax Series Owner's Manual for details on the settings available in the main menu.

DC Disconnect

System Display and Controller (MATE3)

Battery Bank

Vented Battery Enclosure

PV Combiner Box

PV Input Voltage

Battery Voltage

Inverter/Inverter Status

Mode of Operation

Navigation:
- Main Menu
- LCD Screen
- Soft Key Buttons
- Soft Key Commands "EXIT", "GO" etc.

Soft Key Color Code:
- Available menu
- Select this option to proceed
- Adjust the set points value
- Selects a function (e.g., ON, OFF, AUTO)
- Navigation colors
- Switches between devices on the ports of the Communications Hub

NOTE: Soft key functions will vary depending on the selected menu and are defined by the word above the key in the LCD.

If accompanied by a dashed line, pressing that soft key will return the user to the location identified by the dashed line. This will vary depending on the devices in the system.

**NOTE**: See the FLEXmax Series Owner's Manual for details on the settings available in the main menu.
To change the Language, Screen Version or System Voltage:

1. Press the <soft key until “141” is displayed on the LCD.
2. Press the <ENTER> or <ENTRA> soft key to accept the password and move forward to the Select Version Screen.

End-of-Day (EOD) Summary Screens

To access the screens to change the language or system voltage, press and hold the 1 and 3rd soft key at the same time, THEN CLOSE THE DC BREAKERS.

IMPORTANT:

To select a menu from the Main Menu, press and hold the 1 and 3rd soft key at the same time, THEN CLOSE THE DC BREAKERS. Any customized settings will be lost. See the FLEXmax Series Charge Controller Owner's Manual for details.

NOTE:

The values shown in this illustration will vary depending on the nominal DC voltage.

The Spanish Status Screen is not shown in this illustration. It is available in the Spanish translation of this document.