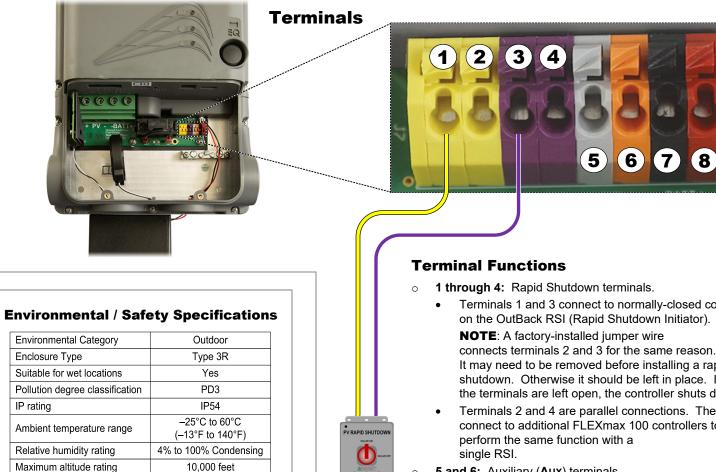
Additional Information

Quick Start Guide



NOTES:

Overvoltage category

Unit output is derated above 25°C (77°F)

PV: OV Cat II

Batt: OV Cat II



Date and Revision February 2020, Revision B

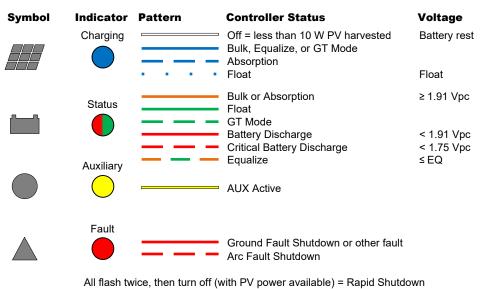
• Terminals 1 and 3 connect to normally-closed contacts on the OutBack RSI (Rapid Shutdown Initiator). connects terminals 2 and 3 for the same reason. It may need to be removed before installing a rapid shutdown. Otherwise it should be left in place. If the terminals are left open, the controller shuts down.

- Terminals 2 and 4 are parallel connections. They can connect to additional FLEXmax 100 controllers to
- 5 and 6: Auxiliary (Aux) terminals.
 - Used for diversion control and other functions.
- 7 and 8: Battery Sense terminals.
 - See Wiring section.

LED Indicators and FLEXmax 100 Symbols

(See **A** in wiring section)

Cher Berk C



FLEXmax 100

Included in Package

- o FLEXmax 100 Charge Controller
- 2 × Mounting Bracket
- Silicone Grease Package
- MicroSD Card (already installed)
- 0

0

- Warning Label
- - (to be applied to battery)
 - 0 Product Literature

Mounting

A

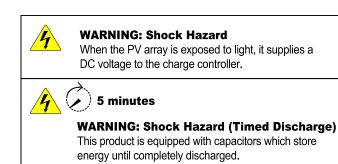
- The FLEXmax 100 must be mounted upright at least 36" (91.4 cm) above the ground or floor. Shade is recommended when installing outdoors.
- Conduit hubs must be connected to the conduit before connecting to the 0 FLEXmax 100.
- Conduit should be 1" size (1³/₈" actual diameter). 0
- Clearance requirements are a minimum of 6" (15.2 cm) above and below the controller. 0
- The unit can be mounted using either brackets (see steps 1 through 4 in A) or 0 keyhole slots (see steps 1 and 2 in **B**) on a secure mounting surface. Follow the numbered steps.





head lag screws

Bracket hole spacing: 5.13" (13.0 mm) Vertical space between upper and lower bracket holes: Approximately 20" when mounted



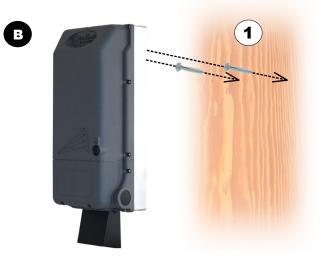




This guide is intended for use by anyone required to install and operate this equipment. Be sure to review this guide carefully to identify any potential safety risks before proceeding. Failure to install or use this equipment as instructed can result in damage to the equipment that may not be covered under the limited warranty. This product is only serviceable by qualified personnel. Additional information on programming and advanced functions is available in the FLEXmax 100 Owner's Manual.

Dimensions

Height: 23.0" (58.4 cm) Width: 8.8" (22.4 cm) Depth to Wall: 6.0" (15.2 cm)



Keyhole Slots (#14 slotted wood screws. 7.9" or 20.1 cm spacing)



Securing Holes (1/4" hex head lag screws)

Wiring

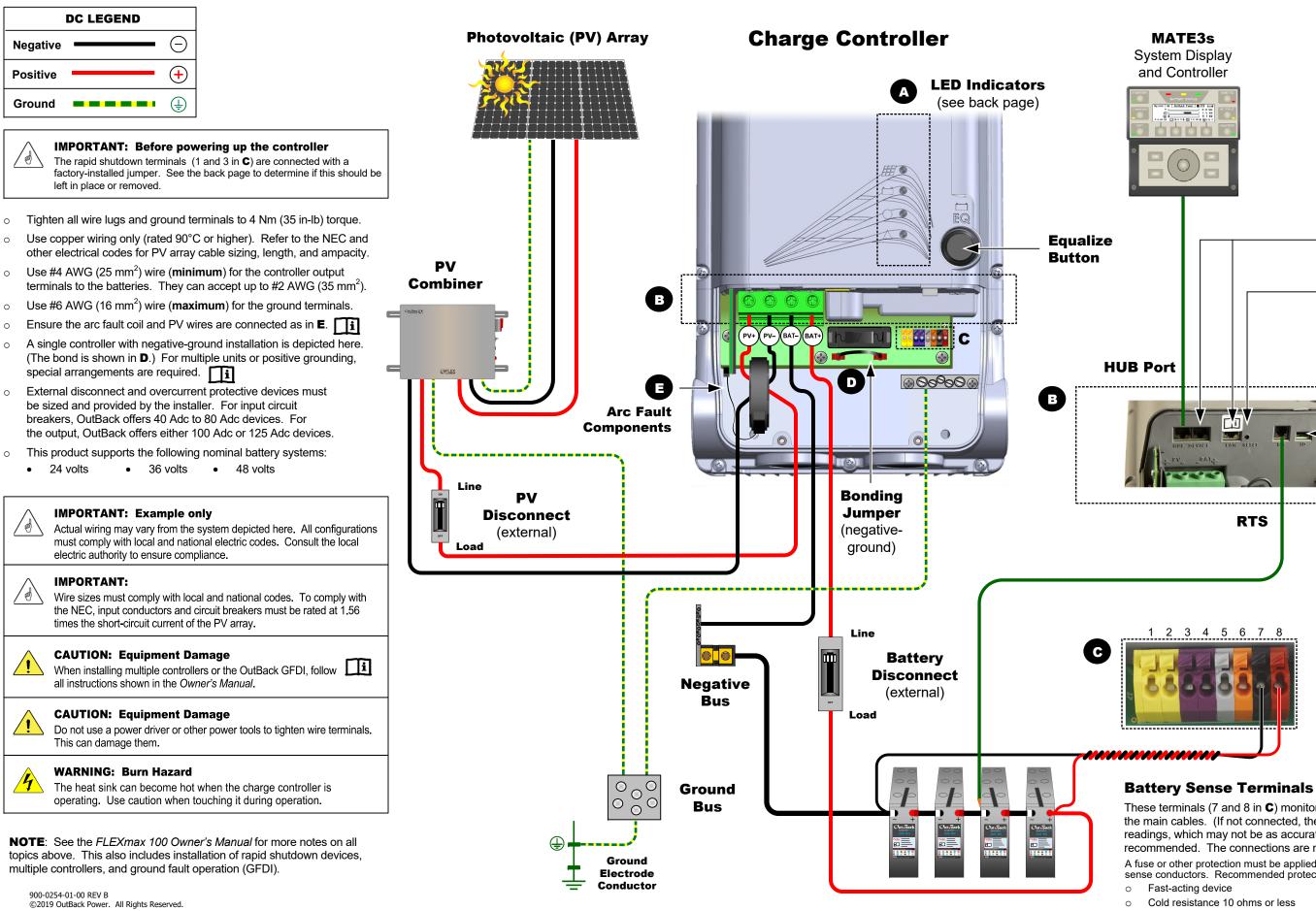
0

0

0

0

0



FLEXmax 100

Ports

The active ports are the RTS port and the HUB port. The HUB port is used to network the controller to a **HUB** Communications Manager product or one of several OutBack system display products as shown here. (See the FLEXmax 100 Owner's Manual for more information.)

See below for more information on the RTS function.

NOTE: The ports shown here as **DEVICE** and **LAN** are not currently active. These ports may be activated in the future using firmware updates.

Reset Button

NOTE: This button is used to update firmware and other functions. It does not reset the controller to the factory default settings. (See the Owner's Manual for information on both topics.)

MicroSD Card

Remote Temperature Sensor (RTS)

The RTS (shown in **B**) attaches to the batteries. It must be placed near the center of the battery bank.

Battery performance will change when not at room temperature (77°F or 25°C). Batteries may be undercharged if cold or overcharged if hot. When the RTS is installed, the FLEXmax 100 adjusts the charging voltages to avoid this problem.

This compensation affects the **Absorb** and *Float* set points. Equalization is not compensated. i

These terminals (7 and 8 in C) monitor battery voltage more accurately than the main cables. (If not connected, the controller will revert to using its own readings, which may not be as accurate.) A twisted-pair cable is recommended. The connections are made directly on the battery terminals.

A fuse or other protection must be applied to the sense conductors. Recommended protection is:

- 80 Vdc or greater
- 1 Adc or smaller