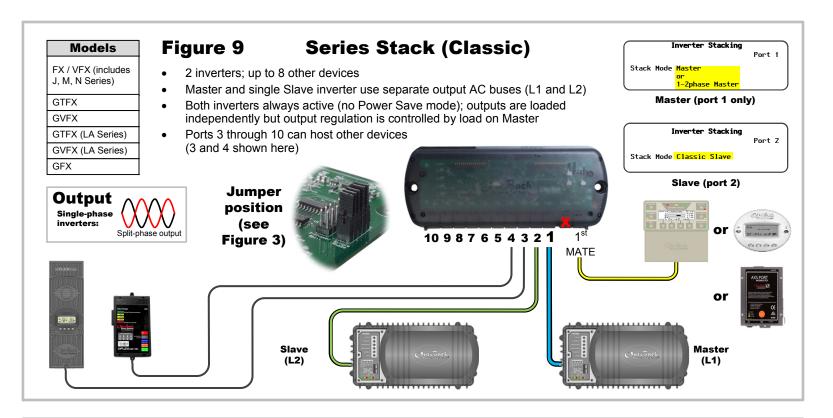
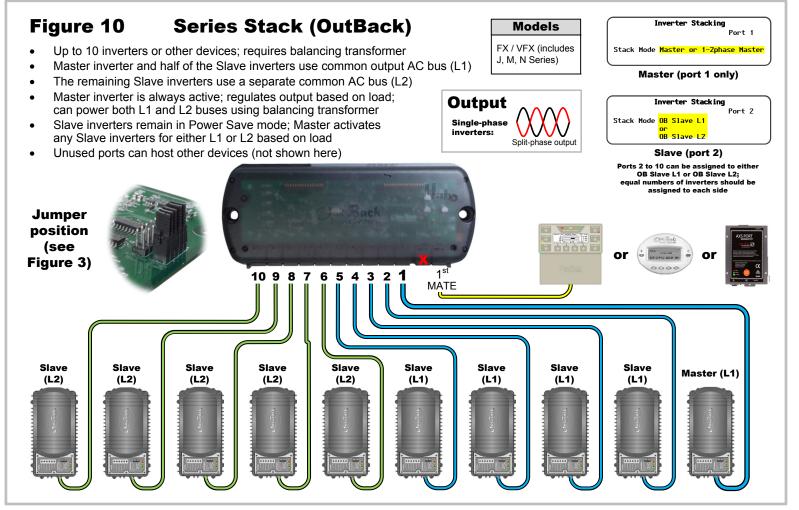
### **Overview Guide**

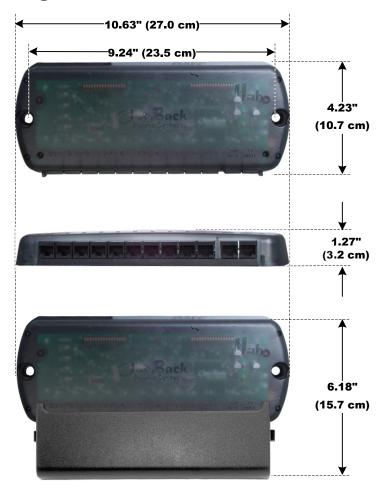






## HUB10.3 Communications Manager





#### Contact Technical Support:

Telephone: +1.360.618.4363
Email: Support@outbackpower.com
Website: www.outbackpower.com



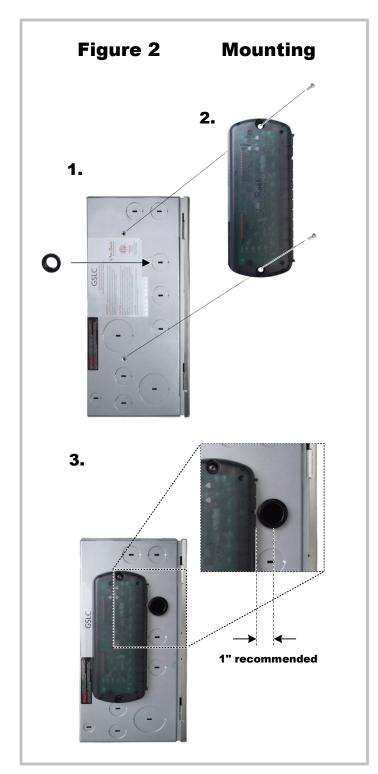
# IMPORTANT: Not intended for use with life support equipment.

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#### **Date and Revision**

HUB 10.3 HUB Wiring Cover
#10 x ½" Screws x 2 Cable, CAT5e, 3' (1 m) x 2
Shutter Bushing x 2 Cable, CAT5e, 6' (2 m) x 3
Snap Bushing x 2 Cable, CAT5e, 10' (3 m) x 4

**NOTE**: See inverter literature for more information on stacking modes and designations.



## **Jumper Configurations**

# Figure 3 **Changing Jumpers** Back of HUB 10.3 1. 3. 4a positions 4b positions This is the factory-installed initial position. Jumper position identified by Used for parallel stacking in all models. MATE3 on power-up:

- See Figure 4.
- Used for classic or OutBack series stacking. See Figures 8 and 9.
- Used for three-phase OutBack stacking with models GVFX(E) and GTFX(E). See Figure 6.

For these applications, verify that all jumpers are in the positions noted in the photograph and the diagram.



Used for Subphase Master stacking in FXR, GS, and GFX inverters (both series and three-phase configurations). See Figures 7 and 8.

For these applications, place all jumpers in the positions noted in the photograph and the diagram.

**NOTE**: This option requires MATE3 firmware revision 002.013.000 or higher. Jumper position identified by MATE3 on power-up:

Searching for Devices

Found

HUB10.3

Searching for Devices Found

HUB10.3

Used for three-phase OutBack stacking with FX, VFX, FX(E) or VFX(E) inverters. See Figure 5.

For this application, place only two jumpers in the positions noted in the photograph and the diagram.

Remove all remaining jumpers. No others are used for this configuration.

Jumper position identified by MATE3 on power-up:

Searching for Devices

HUB10.3 Sub-phase Master

#### Figure 8 **Three-Phase Stack (Subphase Master)**

Master inverter (required on port 1) and up to two Slaves (ports 2 & 3) use Phase A output AC bus

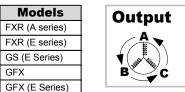
Phase A, B, and C Slave inverters should be equal in number; Slave selection screen may display

Master and Subphase Masters are always active; each Master regulates output based on its own load

load, while the Subphase Masters independently activate Phase B or C Slave inverters based on

Slave inverters remain in Power Save mode; the Master activates Phase A Slave inverters based on its

Subphase Master (required on port 4) and up to two Slaves (ports 5 & 6) use Phase B output AC bus Subphase Master (required on port 7) and up to two Slaves (ports 8 & 9) use Phase C output AC bus





• Up to 9 inverters (ports 1 to 9); 1 other device (port 10); MATE3 only

Slave but could display **OB Slave L1** depending on model

**Jumper** position (see Figure 3)



Slave (port 2) Also ports 3, 5, 6, 8, and 9

Inverter Stacking

Master (port 1 only)

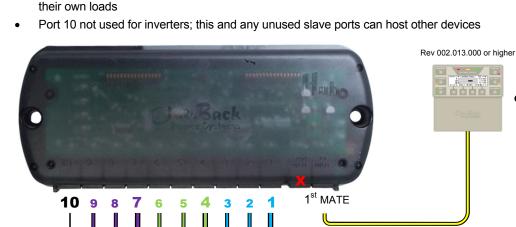
Inverter Stacking

Inverter Stacking Or 3p Classic R

Subphase Master (port 4)

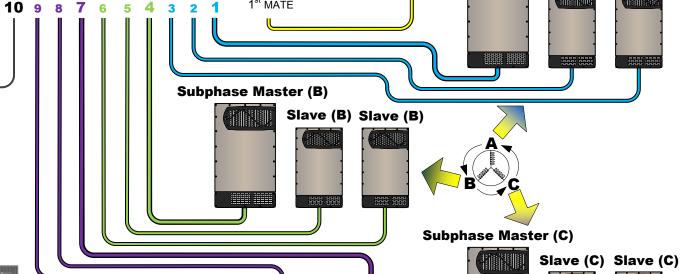
Inverter Stacking Stack Mode C Phase Master

Subphase Master (port 7)

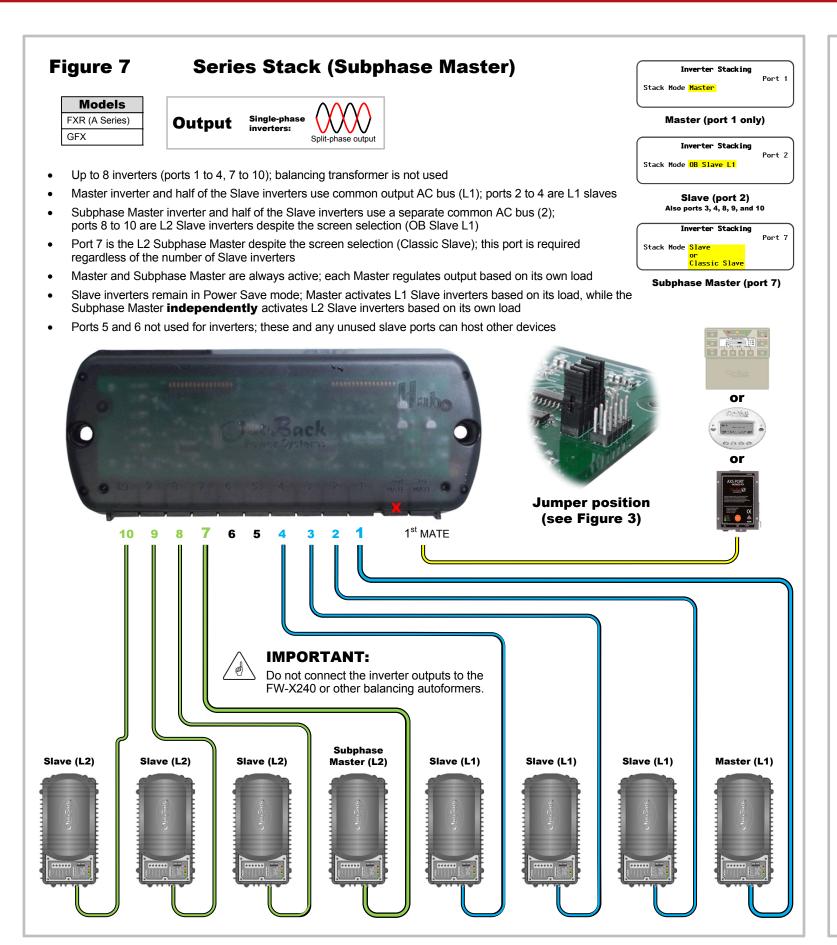


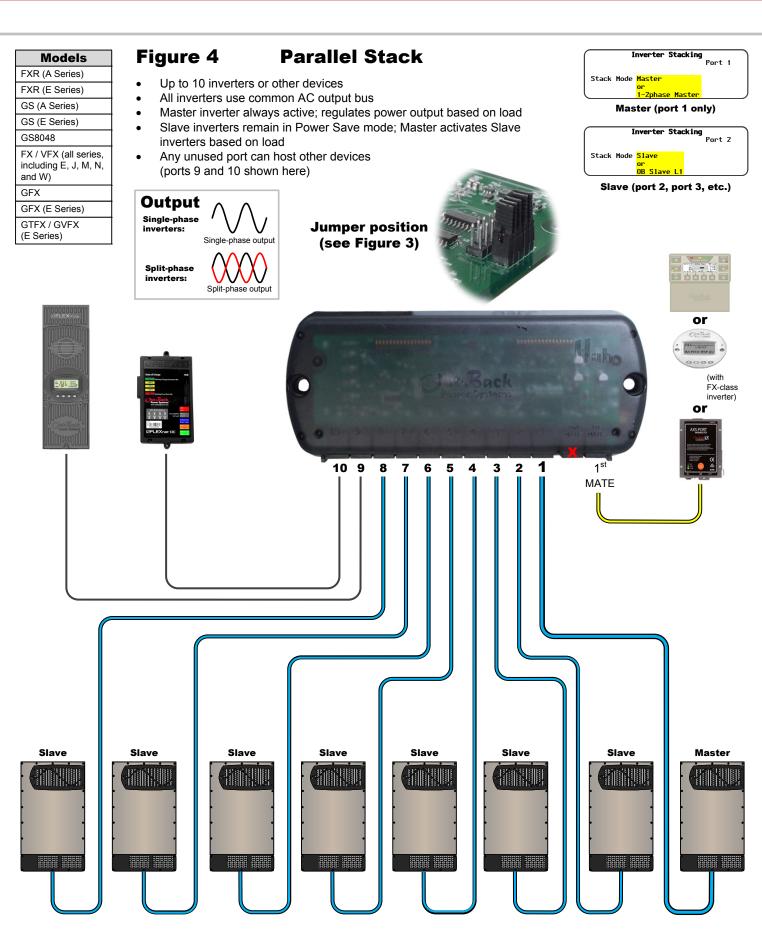






## **Stacking (Parallel)**





## **Stacking (Three-Phase)**

## Figure 5 Three-Phase Stack (all series FX) Models FX / VFX (all series, • 3 inverters; up to 7 other devices Stack Mode Master including E, J, M, N, and W) • Master and two Slave inverters use separate output AC buses (A, B,and C) Master (port 1 only) All inverters always active (no Power Save mode); outputs are loaded independently but output regulation Inverter Stacking is controlled by load on Master • Ports 2,3, and 6 through 10 can host other devices (ports 9 and 10 shown here) Slave B (port 4 only) **Jumper position** (see Figure 3) Inverter Stacking Port 5 Output Single-phase inverters: PHASE B PHASE C Slave C (port 5 only) or 1<sup>st</sup> MATE 8 7 6 5 4 3 2 **1** Slave (C) Slave (B) Master (A)

