Mojave™ ESS Power Supply

Installation Instructions

Purpose and Scope

These instructions detail how to install an AC-to-DC power supply in the Mojave™ Energy Storage System (ESS). This power supply will enable firmware updates to the ESS battery. The process for firmware updates is specified elsewhere and is not included here.

These instructions require familiarity with both the Mojave™ inverter and the ESS battery. For more information, refer to the *Mojave™ Inverter/Charger Quick Start Guide* and the *Mojave™ ESS Operator's Manual*.

⚠	**CAUTION: Hazard to Equipment** Make certain to remove all power to the Mojave™ ESS and any other equipment. Follow all instructions included in this document.
⚠	**CAUTION: Equipment Shutdown** This power supply must be installed before performing firmware updates to the ESS battery. Failure to install it will result in complete shutdown of both the Mojave™ inverter and ESS battery.

Mojave™ Chassis

OutBack Power has manufactured Mojave™ inverters with two different chassis. These can be identified by the conduit knockout pattern. Follow the appropriate installation instructions.

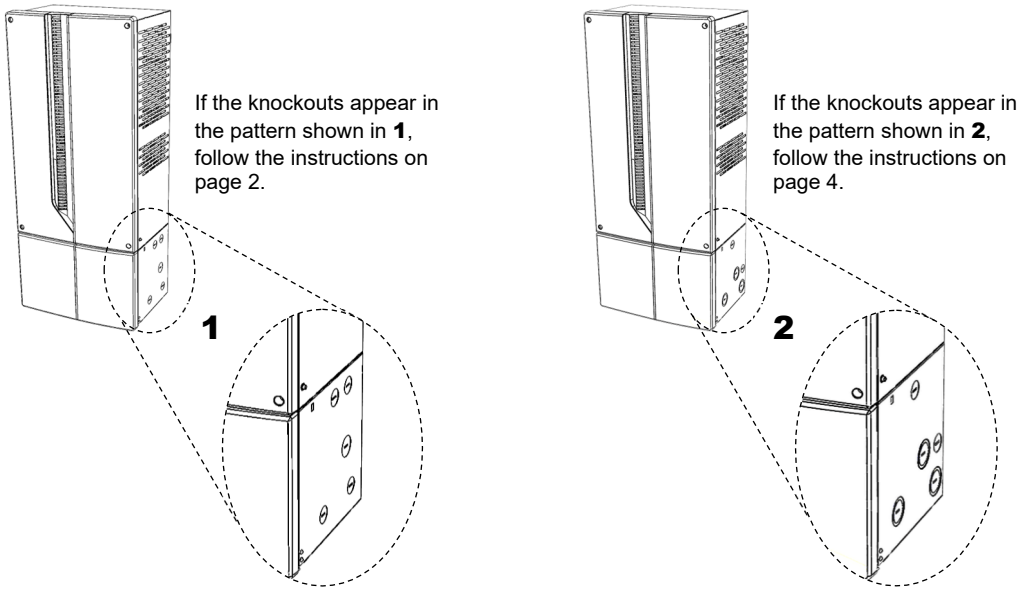

Figure 1 Mojave™ chassis types

Chassis 1 Instructions

To install the power supply in Chassis 1:

1. Remove the inverter's cover as shown in Figure 2.

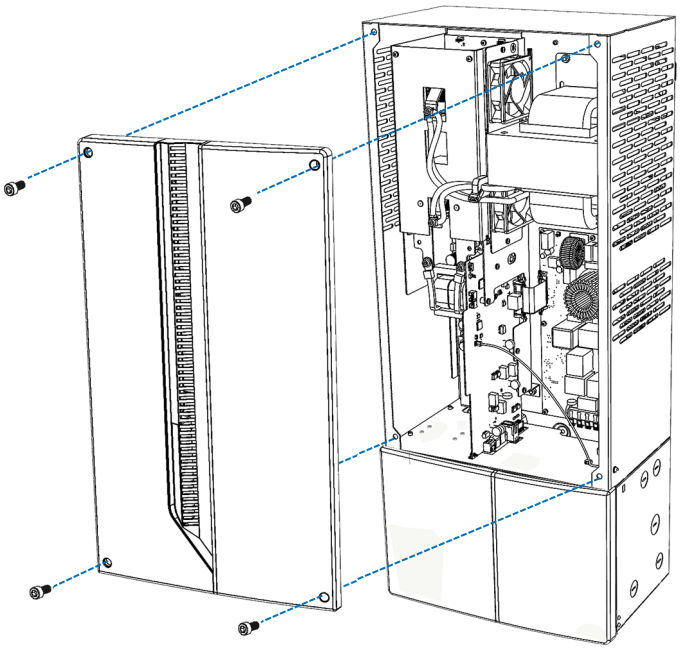

Figure 2 Remove cover

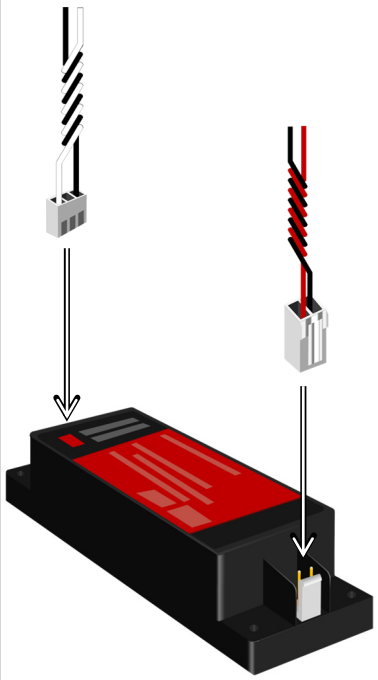

Figure 3 Wiring kits

2. Attach the wiring kits to each end of the power supply as shown in Figure 3.
   - The DC kit has a twisted pair of red and black wires.
   - The AC kit has a twisted pair of black and white wires.
   - Each connector is a unique size. Each is keyed so that it cannot be installed in the wrong position.

3. Using a handheld voltmeter, test to ensure that the system has less than 10 Vdc and less than 30 Vac on the appropriate terminals. See Figure 4 on the next page.
   - In Figure 4, test the DC voltage on the bus bars at the location designated **DC**.
   - In Figure 4, test the AC voltage on the terminals at the location designated **AC**.

4. Mount the power supply as shown in Figure 4. Four PEM nuts are installed in the lower left section of the chassis.
   - Orient the power supply so that the DC wiring is on the left, AC on the right.
   - Position the power supply over the PEM nuts. Using a #1 Phillips screwdriver, attach the power supply with four M3 screws.

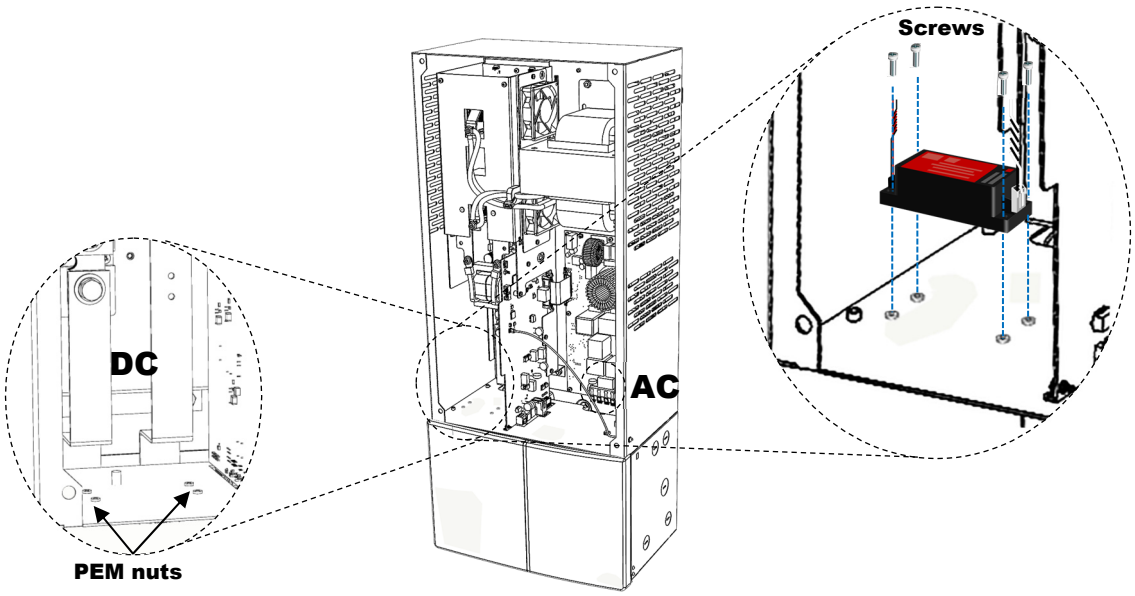

Figure 4 Mounting power supply (Chassis 1)

5. Wire the power supply as shown in Figure 5.
   - Route the wires around the components as necessary.

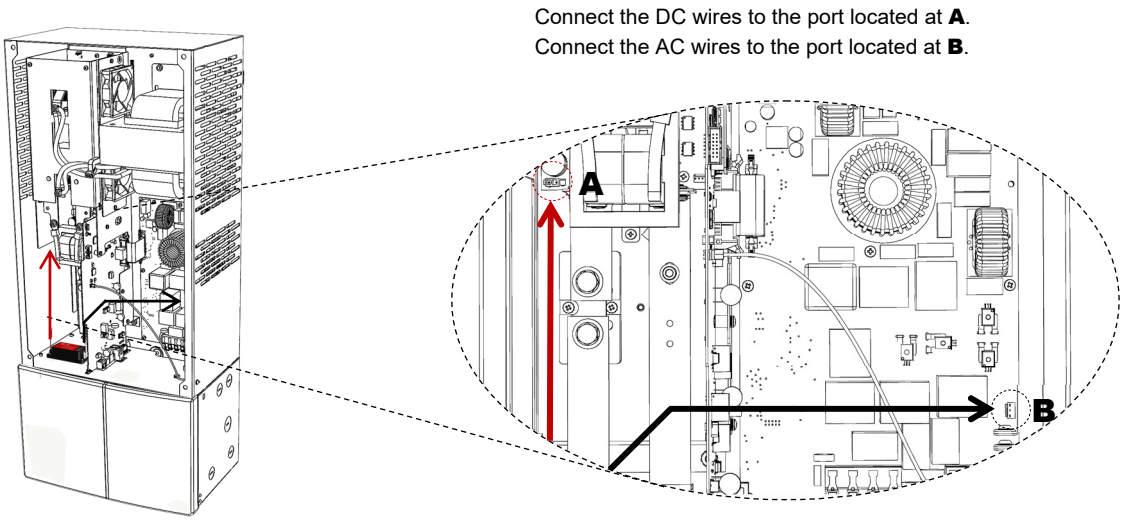

Figure 5 Wiring power supply (Chassis 1)

Installation is complete.

Replace all covers. Avoid pinching any wires during replacement.

Chassis 2 Instructions

To install the power supply in Chassis 2:

1. Using a 5 mm hex (Allen) wrench, remove 4 screws from the inverter's cover. Remove the cover. See **A** in Figure 6.
2. Open the wiring compartment door by pressing the latch at **B**. The door swings to the right. Inside is a "dead front" which prevents accidental contact. To remove the dead front, remove the two screws **C** from the corners of the dead front. The dead front will rotate forward from the top, but is slotted in place at the bottom. Remove the dead front by pulling upward and out. See **D**.

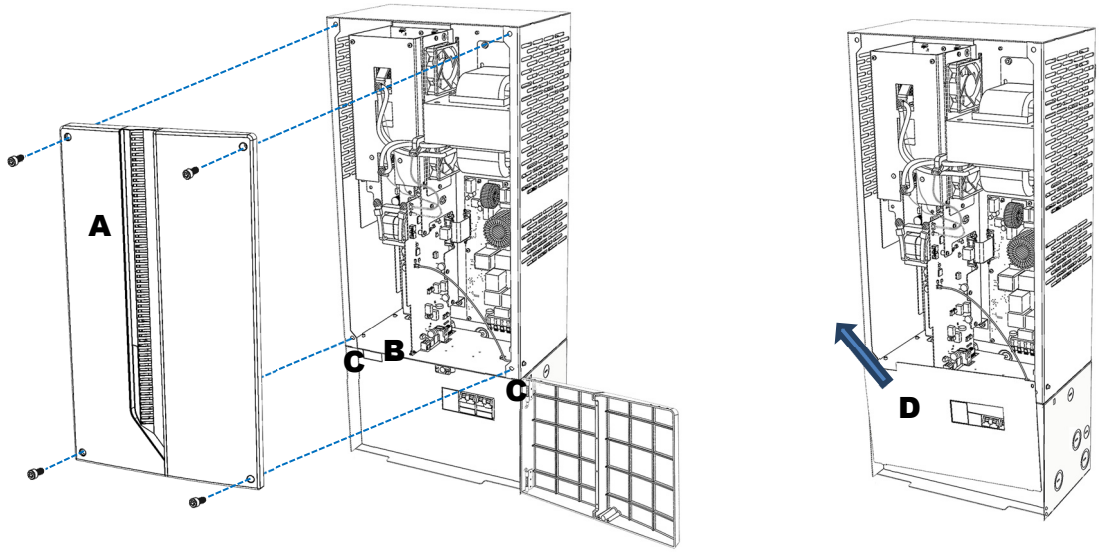

Figure 6 Removing cover and dead front

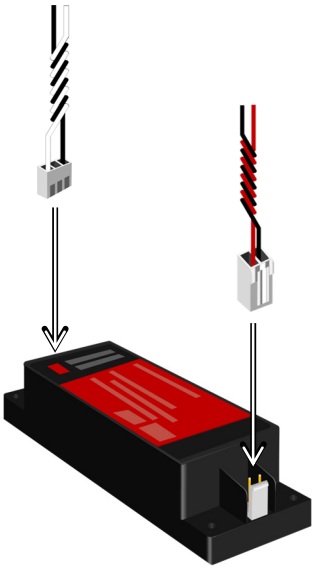

Figure 7 Wiring kits

3. Attach the wiring kits to each end of the power supply as shown in Figure 7.
   - The DC kit has a twisted pair of red and black wires.
   - The AC kit has a twisted pair of black and white wires.
   - Each connector is a unique size. Each is keyed so that it cannot be installed in the wrong position.

4. Using a handheld voltmeter, test to ensure that the system has less than 10 Vdc and less than 30 Vac on the appropriate terminals. See Figure 8 on the next page.
   - In Figure 8, test the DC voltage on the bus bars at the location designated **DC**.
   - In Figure 8, test the AC voltage on the terminals at the location designated **AC**.

5. Mount the power supply as shown in Figure 8. Four mounting holes are located in the lower section of the chassis.
   - Orient the power supply so that the DC wiring is on the left, AC on the right.
   - Position the power supply over the mounting holes. Using a #1 Phillips screwdriver and 5.5 mm socket, attach the power supply with four M3 screws and nuts.

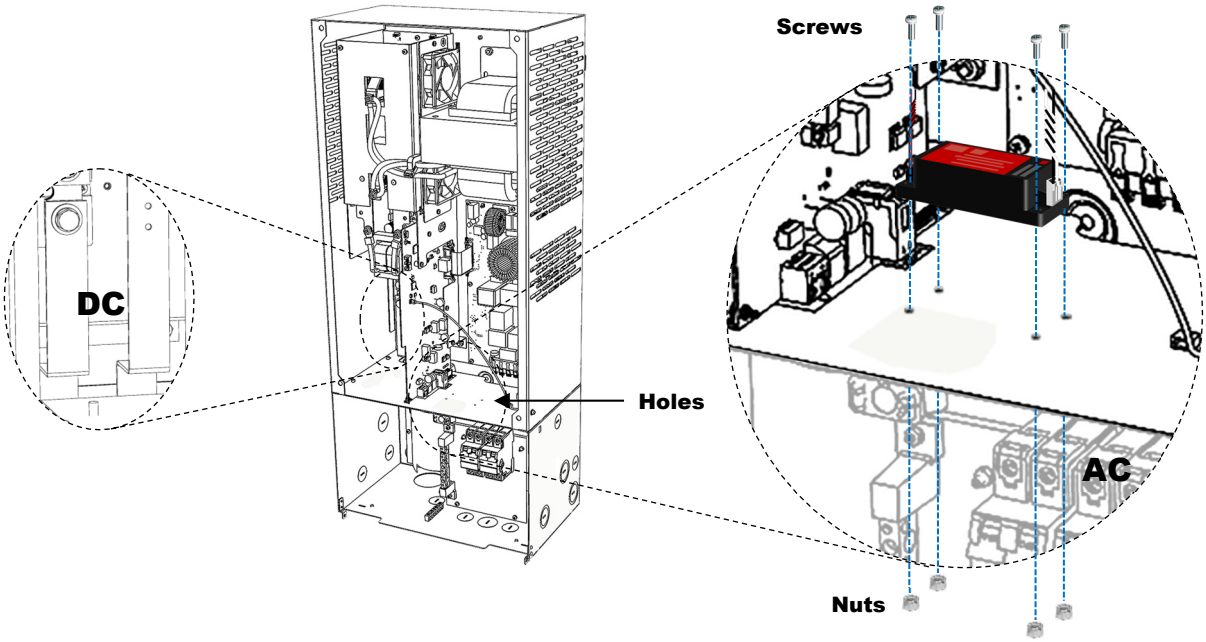

Figure 8 Mounting Power Supply (Chassis 2)

6. Wire the power supply as shown in Figure 9.
   - Route the wires around the components as necessary.

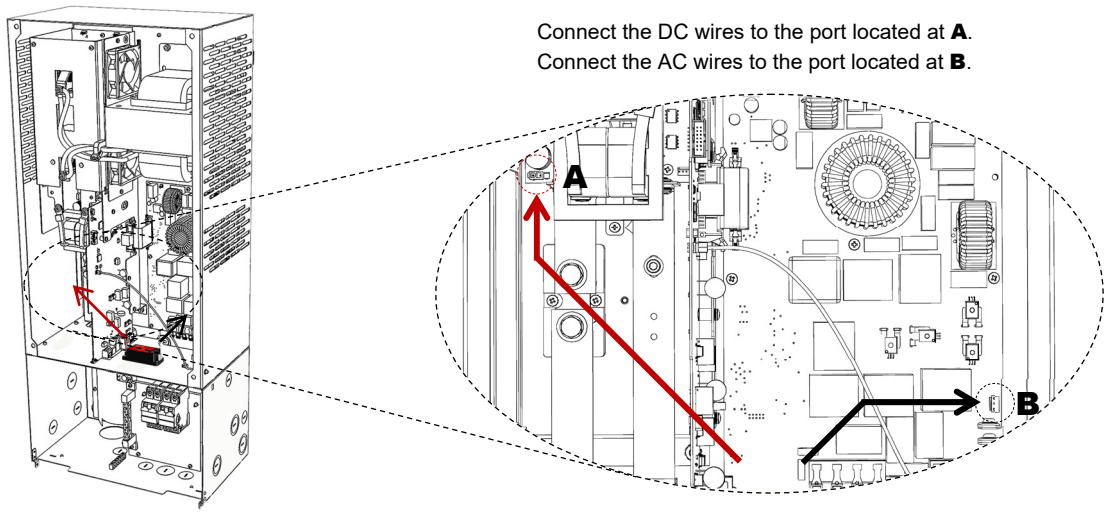

Figure 9 Wiring power supply (Chassis 2)

Installation is complete.

Replace all covers. Avoid pinching any wires during replacement.

IMPORTANT

IMPORTANT:

This power supply is only intended to be connected for the firmware update process. Once the update is complete, the wiring kits should be disconnected and removed.

- Replace the wires in their original shipping bag (or a similar bag) and tape them to the inside of the wiring compartment door.
- The power supply may remain mounted in place for future updates.

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