Quick Start Guide – Units Configured With DM3 Communications Modules

Pre-Service Connection Procedure

1. Verify Service Power Inserter (SPI) toggle switch is set to the ALT position (Fig. 2).
2. Verify the battery switch is set to the OFF position on XM2-300HP (0).
3. Loosen the captive fasteners and remove the Inverter Module from the chassis. On the DM3, locate and examine J12 on the DM3 module to verify the jumper connects pins 2 and 3 (see Fig. 5). After verification, reinsert and secure the Inverter Module.
4. Connect the battery cables to the battery terminals (connect temperature sensor ring lug to the Negative (–) battery terminal at this time) and the enclosure sensor into the clip on the front edge of the Power Supply shelf. Tighten the terminal hardware to the battery manufacturer's recommended torque settings.
5. Insert the (+) and (–) power leads for the optional Local/Remote Indicator (LRI) cable as indicated in Fig. 1. Tighten to 7.0 lbf•in / 0.8Nm.
6. Make the following DM3 connections:
   a. RF Cable to DM3 RF Connector. Tighten to 10in-lb ± 1in-lb
   b. Environmental cable (e.g., PoE control, Battery heater mat control)
   c. Tamper switch cable into TPR connector
7. Connect the power leads from the SPI (network load) to the Output 1 connector as indicated below; Black to ~, White to N. Tighten to 7.0 lbf•in / 0.8Nm.
8. Connect an auxiliary load (e.g., fan) to the Output 2 connector (optional); Black to ~, White to N. Tighten to 7.0 lbf•in / 0.8Nm.
9. Turn on AC breaker (located on the enclosure) and verify the correct (per unit's nameplate voltage) utility voltage is present at the outlet before plugging the XM3-200HP line cord into the utility outlet.

Turn-Up and Test

1. Plug the XM2-300HP line cord into the utility outlet.
2. The power supply will perform a "display test" and verify configuration for the power supply. After the initial display test, a "No Batteries" alarm message appears in the Smart Display because the battery switch is off. The green output LED remains off and the red alarm LED continues to flash while in this alarm state.

   Connect the battery to the Battery Input connector.
4. Set the Inverter Module's battery switch to the ON position (1).
5. Verify no alarms are present (it may take up to 60 seconds for alarms to clear).
6. Perform a self-test by simultaneously pressing the DOWN arrow key and ENTER key. Wait for self-test completion before proceeding. To manually exit self-test, simultaneously press DOWN arrow and ENTER key.
7. Perform the live inverter test procedure:
   a. Turn AC input breaker OFF.
   b. Verify XM2-300HP transfers to "Inverter" mode.
   c. Turn AC input breaker ON.
   d. Verify XM2-300HP transfers back to utility.
8. Set the Service Power Inserter (SPI) toggle switch to the ON position (Fig. 2).
9. Verify no alarms are present.
10. Secure the enclosure.
11. The unit is now in service. For additional information visit www.alpha.com or www.alpha-outback-energy.com and download the Technical Manual.

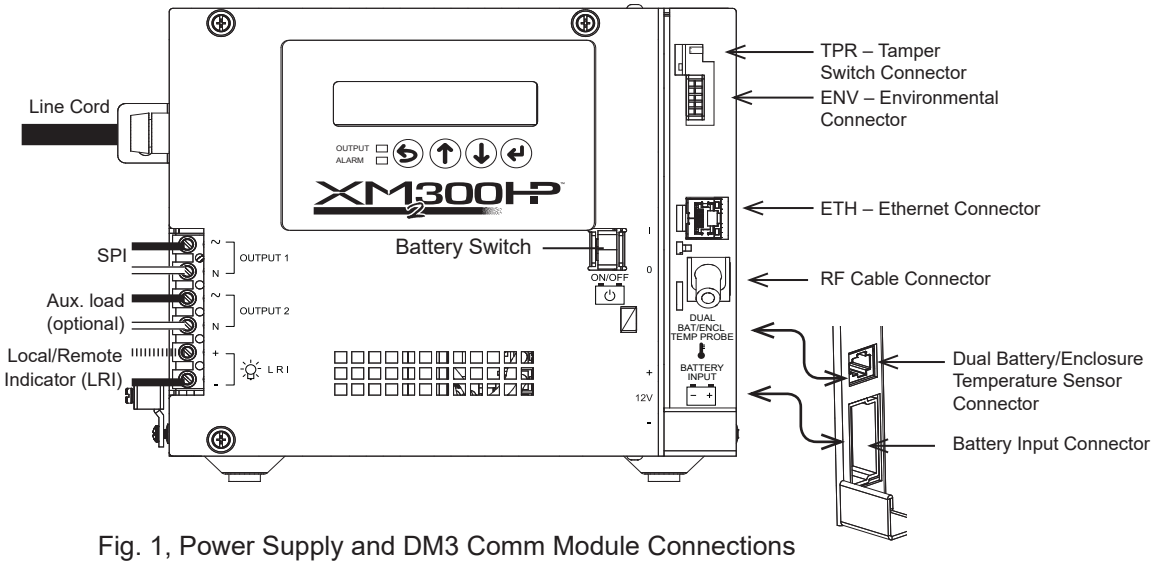

Fig. 1, Power Supply and DM3 Comm Module Connections

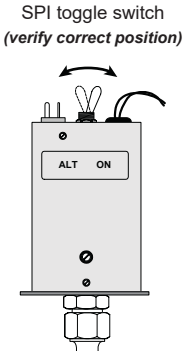

Fig. 2, Service Power Inserter (SPI)

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Quick Start Guide – Units Configured With DPM Communications Modules

Pre-Service Connection Procedure

1. Verify Service Power Inserter (SPI) toggle switch is set to the ALT position (Fig. 4).
2. Verify the battery switch is set to the OFF position on XM2-300HP (0).
3. Connect the battery cables to the battery terminals (connect temperature sensor ring lug to the Negative (–) battery terminal at this time) and the enclosure sensor into the clip on the front edge of the Power Supply shelf. Tighten the terminal hardware to the battery manufacturer's recommended torque settings.
4. Insert the (+) and (–) power leads for the optional Local/Remote Indicator (LRI) cable as indicated in Fig. 3. Tighten to 7.0 lbf•in / 0.8Nm.
5. Make the following DPM connections:
   a. RF Cable to DPM RF Connector. Tighten to 10in-lb ± 1in-lb
   b. Environmental cable (e.g., PoE control, Battery heater mat control)
   c. Tamper switch cable into TPR connector
6. Connect the power leads from the SPI (network load) to the Output 1 connector as indicated below; Black to ~, White to N. Tighten to 7.0 lbf•in / 0.8Nm.
7. Connect an auxiliary load (e.g., fan) to the Output 2 connector (optional); Black to ~, White to N. Tighten to 7.0 lbf•in / 0.8Nm.
8. Turn on AC breaker (located on the enclosure) and verify the correct (per unit's nameplate voltage) utility voltage is present at the outlet before plugging the XM3-200HP line cord into the utility outlet.

Turn-Up and Test

1. Plug the XM2-300HP line cord into the utility outlet.
2. The power supply will perform a "display test" and verify configuration for the power supply. After the initial display test, a "No Batteries" alarm message appears in the Smart Display because the battery switch is off. The green output LED remains off and the red alarm LED continues to flash while in this alarm state.
3. Connect the battery to the Battery Input connector.
4. Set the Inverter Module's battery switch to the ON position (1).
5. Verify no alarms are present (it may take up to 60 seconds for alarms to clear).
6. Perform a self-test by simultaneously pressing the DOWN arrow key and ENTER key. Wait for self-test completion before proceeding. To manually exit self-test, simultaneously press DOWN arrow and ENTER key.
7. Perform the live inverter test procedure:
   a. Turn AC input breaker OFF.
   b. Verify XM2-300HP transfers to "Inverter" mode.
   c. Turn AC input breaker ON.
   d. Verify XM2-300HP transfers back to utility.
8. Set the Service Power Inserter (SPI) toggle switch to the ON position (Fig. 4).
9. Verify no alarms are present.
10. Secure the enclosure.
11. The unit is now in service. For additional information visit www.alpha.com or www.alpha-outback-energy.com and download the Technical Manual.

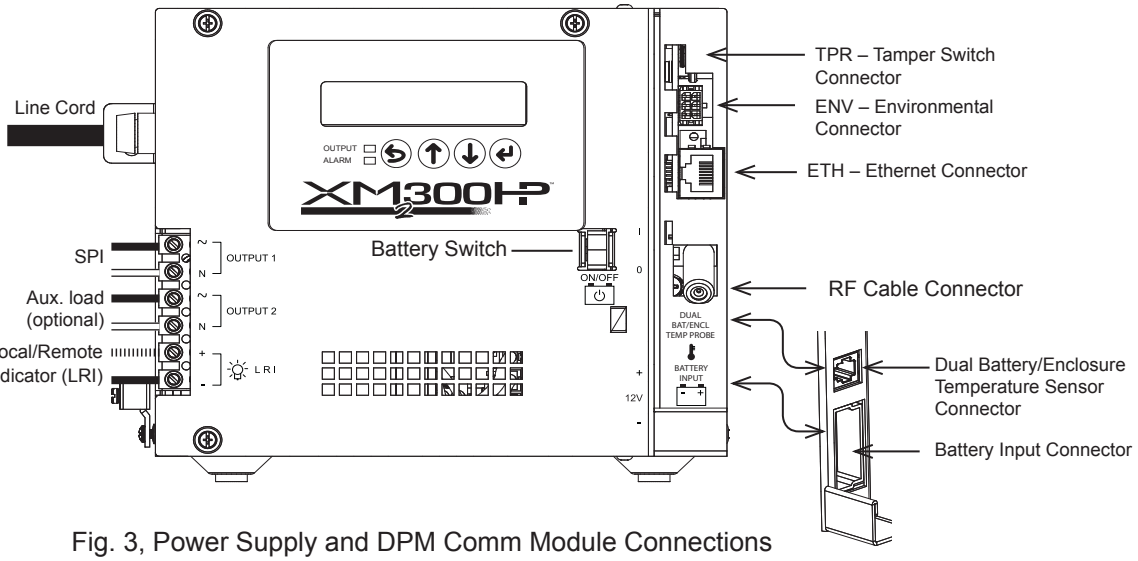


Fig. 3, Power Supply and DPM Comm Module Connections

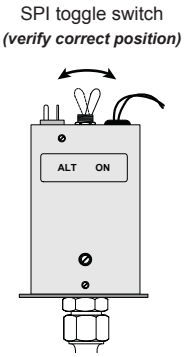
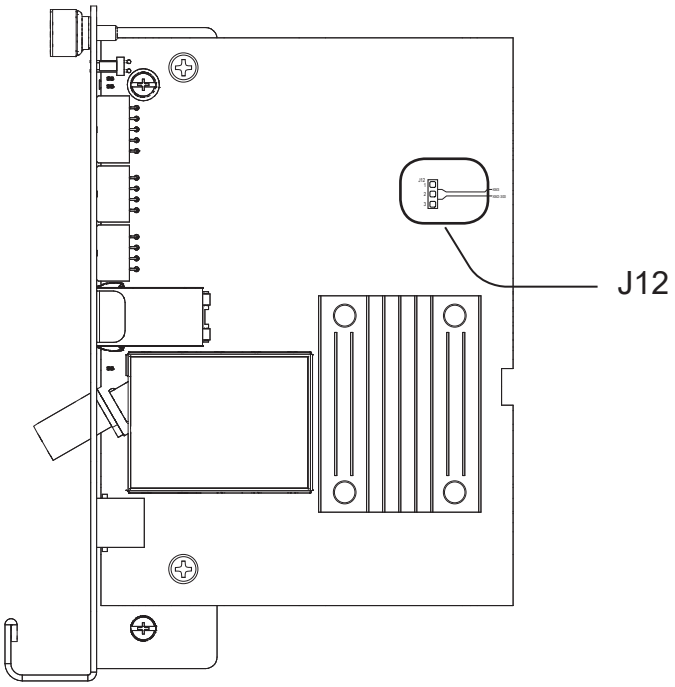


Fig. 4, Service Power Inserter (SPI)

Verification of Jumper Settings on DM3

To confirm the correct DM3 Comm Module configuration for the XM2-300HP Power Supply, locate the Reset Timing Jumper [J12]; verify pin shorting connector is set as indicated below.



Reset Timing [J12]

Verify the jumper is in position 2 and 3 when using the DM3 Comm Module in an XM2-300HP Power Supply.

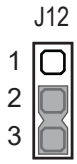


Fig. 5, Location and setting of J12 on DM3

Compliance and Support

Notice of FCC Compliance

Per FCC 47 CFR 15.21:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Per FCC 47 CFR 15.105:
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Product and Technical Support

For general product information or customer service call: +49 9122 79889 0

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