

# Backup Interface Installation Checklist

| 1. Installation and Wiring at the Backup Interface                |                                                                                                                                      |                          |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1.1                                                               | Check the torque of all the securing bolts for the mounting bracket and conduit holder.                                              | <input type="checkbox"/> |
| 1.2                                                               | Check the torque of all the electrical connections inside the Backup Interface                                                       | <input type="checkbox"/> |
| 1.3                                                               | Take a photograph of the Backup Interface connection area (useful for future debugging, if necessary).                               | <input type="checkbox"/> |
| 1.4                                                               | If required, verify that the neutral-ground bonding jumper was installed.                                                            | <input type="checkbox"/> |
| 1.5                                                               | Verify the 7-pin communication wiring to the inverter.                                                                               | <input type="checkbox"/> |
| 1.6                                                               | If no external RSD is used, verify the external RSD jumper is installed.                                                             | <input type="checkbox"/> |
| 1.7                                                               | Verify the DIP switches are in the correct position.                                                                                 | <input type="checkbox"/> |
| 1.8                                                               | Take a photograph of the Backup Interface communications connection area (useful for future debugging, if necessary).                | <input type="checkbox"/> |
| 1.9                                                               | Verify the inverter has been wired to the circuit breaker.                                                                           | <input type="checkbox"/> |
| 1.10                                                              | If additional circuit breakers have been installed, verify both sides have been torqued correctly.                                   | <input type="checkbox"/> |
| 1.11                                                              | If the installation has been completed, make sure the inverter circuit breaker is in the ON position.                                | <input type="checkbox"/> |
| 2. Installation and Wiring at the Energy Hub or StorEdge Inverter |                                                                                                                                      |                          |
| 2.1                                                               | Verify all grounding connections have been torqued properly.                                                                         | <input type="checkbox"/> |
| 2.2                                                               | Verify the termination of the inverter output circuit.                                                                               | <input type="checkbox"/> |
| 2.3                                                               | If connected, verify the termination of the Smart EV Charger power supply.                                                           | <input type="checkbox"/> |
| 2.4                                                               | Verify safe DC voltage of the connected strings for polarity and correctness.                                                        | <input type="checkbox"/> |
| 2.5                                                               | Verify the PV input connections.                                                                                                     | <input type="checkbox"/> |
| 2.6                                                               | Verify the conductors are connected correctly to the Energy Hub inverter.                                                            | <input type="checkbox"/> |
| 2.7                                                               | Verify the 7-pin communication wiring to the Backup Interface.                                                                       | <input type="checkbox"/> |
| 2.8                                                               | Verify the 4-pin communication wiring to the battery.                                                                                | <input type="checkbox"/> |
| 2.9                                                               | Verify the RS485-2 communication wiring to external SolarEdge devices, such as Smart EV Charger or additional inverters.             | <input type="checkbox"/> |
| 2.10                                                              | Verify the 9V battery has been installed.                                                                                            | <input type="checkbox"/> |
| 2.11                                                              | Verify the cellular antenna cable is routed behind the inverter and protected from damage.                                           | <input type="checkbox"/> |
| 2.12                                                              | Confirm the cellular antenna is attached to the mounting bracket.                                                                    | <input type="checkbox"/> |
| 2.13                                                              | Take a photograph of the Connection Unit (useful for future debugging, if necessary).                                                | <input type="checkbox"/> |
| 3. Installation and Wiring at the Battery                         |                                                                                                                                      |                          |
| 3.1                                                               | Verify the DC positive, negative, and ground conductors are terminated properly.                                                     | <input type="checkbox"/> |
| 3.2                                                               | Verify the 4-pin communication wiring matches the wiring in the Energy Hub inverter.                                                 | <input type="checkbox"/> |
| 4. Installation and Wiring at the Smart EV Charger                |                                                                                                                                      |                          |
| 4.1                                                               | Verify the termination of the L1, L2, and ground conductors.                                                                         | <input type="checkbox"/> |
| 4.2                                                               | If a Smart EV Charger is used:                                                                                                       |                          |
|                                                                   | ■ Verify RS485 wiring from the Smart EV Charger to the Energy Hub inverter.                                                          | <input type="checkbox"/> |
|                                                                   | ■ Verify the DIP switches on the communication interface board are in the up position.                                               | <input type="checkbox"/> |
| 4.3                                                               | Verify the position of the DIP switches to increase or decrease the charge amperage.                                                 | <input type="checkbox"/> |
| 5. Installation and Wiring at Grid Connection                     |                                                                                                                                      |                          |
| 5.1                                                               | Verify the feeders to the Backup Interface are torqued correctly.                                                                    | <input type="checkbox"/> |
| 5.2                                                               | If the system is installed for partial backup, verify the placement of additional CTs.                                               | <input type="checkbox"/> |
| 5.3                                                               | Take a photograph of the electrical connections (useful for future debugging, if necessary).                                         | <input type="checkbox"/> |
| 5.4                                                               | Take a photograph of the CTs, if used (useful for future debugging, if necessary).                                                   | <input type="checkbox"/> |
| 6. Installation and Wiring at the Backup Panel                    |                                                                                                                                      |                          |
| 6.1                                                               | Verify the feeders from the Backup Interface are torqued correctly.                                                                  | <input type="checkbox"/> |
| 6.2                                                               | If using the Backup Interface as a service side connection, make sure the bonding jumper is installed.                               | <input type="checkbox"/> |
| 6.3                                                               | If the bonding jumper is installed in the Backup Interface, make sure ground and neutral are isolated in all other locations.        | <input type="checkbox"/> |
| 6.4                                                               | Take a photograph of the electrical connections (useful for future debugging, if necessary).                                         | <input type="checkbox"/> |
| 7. Activation and Firmware Upgrade                                |                                                                                                                                      |                          |
| 7.1                                                               | Reinstall the Backup Interface cover and Energy Hub inverter covers. Verify the screws are tightened as required.                    | <input type="checkbox"/> |
| 7.2                                                               | Verify the manual bypass switch is in the ON position.                                                                               | <input type="checkbox"/> |
| 7.3                                                               | Verify the battery circuit and auxiliary/disconnect breaker are in the ON position, as specified in the manufacturer's instructions. | <input type="checkbox"/> |
| 7.4                                                               | Turn the inverter's DC disconnect switch to the ON position.                                                                         | <input type="checkbox"/> |
| 7.5                                                               | Turn the Backup Interface's ON/OFF switch to the ON position.                                                                        | <input type="checkbox"/> |
| 7.6                                                               | Open SetApp and connect to the inverter by scanning the QR code and turning on the inverter's Wi-Fi.                                 | <input type="checkbox"/> |

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| 7.7                                                | Verify the inverter activates.                                                                                                                                                                                                                                      | <input type="checkbox"/> |
| 7.8                                                | Verify the inverter and battery FW are upgraded automatically.                                                                                                                                                                                                      | <input type="checkbox"/> |
| 7.9                                                | Verify the optimizers have been paired to the inverter.                                                                                                                                                                                                             | <input type="checkbox"/> |
| <b>8. Configuration and Verification in SetApp</b> |                                                                                                                                                                                                                                                                     |                          |
| 8.1                                                | Select <b>Commissioning&gt;Site Communication</b> and verify all batteries are configured to RS485-1.                                                                                                                                                               | <input type="checkbox"/> |
| 8.2                                                | Select <b>Commissioning&gt;Site Communication</b> and verify that Meter 2 is programmed as an import/export meter, if a Backup interface is connected.                                                                                                              | <input type="checkbox"/> |
| 8.3                                                | Select <b>Commissioning&gt;Maintenance&gt;Diagnostics&gt;Self-Test&gt;Battery Self-Test</b> and run the test for all connected batteries. Make sure all batteries pass the test.                                                                                    | <input type="checkbox"/> |
| 8.4                                                | Select <b>Commissioning&gt;Power Control&gt;Energy Manager&gt;Storage Control</b> and verify the connected batteries are programmed to the desired mode of operation.                                                                                               | <input type="checkbox"/> |
| 8.5                                                | Select <b>Commissioning&gt;Power Control&gt;Energy Manager&gt;Backup Configuration</b> and verify the required settings are selected.                                                                                                                               | <input type="checkbox"/> |
| 8.6                                                | If a Smart EV Charger or additional inverters are connected, select <b>Commissioning&gt;Site Communication&gt;RS485-2</b> and change the setting to Leader. Run a <b>Follower Detect</b> to confirm that all connected devices are communicating with the inverter. | <input type="checkbox"/> |
| 8.7                                                | Select <b>Commissioning&gt;Status</b> and verify all connected devices are communicating. Verify the SOE of the connected batteries. Verify the Backup Interface is in the On-Grid mode.                                                                            | <input type="checkbox"/> |
| 8.8                                                | Perform a backup test:                                                                                                                                                                                                                                              |                          |
|                                                    |  Verify the inverter has a high DC voltage (>350Vdc).                                                                                                                              | <input type="checkbox"/> |
|                                                    |  Turn on the grid AC input to the Backup Interface.                                                                                                                                | <input type="checkbox"/> |
|                                                    |  Verify that the backed-up loads are being supplied.                                                                                                                               | <input type="checkbox"/> |
| 8.9                                                | Take screen captures of the above menus (useful for future debugging, if necessary).                                                                                                                                                                                | <input type="checkbox"/> |