The Conext Quick Fit SW 4024 consists of an Inverter/Charger, a Solar Charge Controller, and a selection of Conext solar accessories that are designed to be an integral part of any utility grid-connected PV Power System. The Conext Quick Fit SW 4024 is preassembled on a backplate for quick and easy installation.

B1 Introduction – Wiring Connections

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

This document is in addition to, and incorporates by reference, the relevant product manuals for each individual device on the Conext Quick Fit SW 4024. Before reviewing this document, you must read the relevant product manuals. Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation for each device. Ensure you are familiar with that information before proceeding.

Failure to follow these instructions will result in death or serious injury.

A Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

A DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING indicates a hazardous situation which, if not avoided, can result in death or serious injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material. A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Conventions Used

A Section

A Step

A Safety

A Direction

A Expand

A Label

Exclusion for Documentation

UNLESS SPECIFICALLY AGREED TO IN WRITING, SCHNEIDER ELECTRIC MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN ITS MANUALS OR OTHER DOCUMENTATION; (A) MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN ITS MANUALS OR OTHER DOCUMENTATION; (A) MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN ITS MANUALS OR OTHER

D1 Installation – Mounting

WARNING

HAZARD OF CRUSH INJURY AND EQUIPMENT DAMAGE

• At least two people are required to lift this equipment. Use of appropriate lift equipment is recommended.
• Lift equipment must be able to support a minimum of 175 lbs (79 kg).
• For structural and seismic stability, this equipment must be mounted onto a vertical supporting surface strong enough to support a minimum of 535 lbs (238 kg), and with mounting hardware that can also support this weight.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

1. Mark and predrill the wall into three studs, 16 in (406 mm) apart.
2. Attach screw-in handles and/or attach lifting rings (not supplied) to the two “D” holes at each top corner.
3. Mount

4. Fasten backplate screws (3/8 in screws, not supplied)
**D2** Installation – Lock-out and Tag-out

**Hazard of Electric Shock, Explosion, or Arc Flash**
- This equipment must be installed only by qualified personnel and serviced only by authorized service personnel equipped with appropriate PPE and following safe electrical work practices.
- Before opening any doors or covers:
  - Consult system diagram to identify all power sources. This equipment is energized from multiple sources—the DC inputs and the AC grid.
  - When the PV array is exposed to light, it supplies a DC voltage to this equipment.
  - De-energize, lock out, and tag out all power sources. External disconnecting means for the DC, AC, and auxiliary AC source, capable of being locked-out and tagged-out, must be provided as part of the installation. External disconnect devices are located elsewhere in the installation; they are not part of this equipment.
  - Wait at least ten minutes for internal capacitors to discharge to safe voltages; Wearing appropriate PPE, verify that all circuits are de-energized using a suitably rated meter.
- Never energize this equipment with the covers removed.
- Before opening any doors or covers:
  - Wait at least ten minutes for internal capacitors to discharge to safe voltages; Wearing appropriate PPE, verify that all circuits are de-energized using a suitably rated meter.
- Replace all devices and covers before turning on power to this equipment.

**E1** Wiring – Conext™ SW AC and DC Switchgear

**NOTE:** For more information, see the Conext SW AC Switchgear 120/240V Installation Guide (975-0078-01-01), and the Conext SW DC Switchgear Installation Guide (975-0078-01-01).

1. Install AC INPUT wires (not provided) between the L1 and L2 terminals AND the AC source box. Install Neutral and Ground wires (not provided) between the Neutral and Ground bus bars AND the AC source box. Route the wires through one of the knockout holes.

2. Install DC cables (not provided) between the battery disconnect terminals and the battery terminals in the DC Switchgear panel. Route the wires through one of the knockout holes in the AC Switchgear panel.

3. Install the PV+ and PV- cables* (not provided) between the PV array and the terminals in the DC Switchgear panel. Route the wires through one of the knockout holes in the DC Switchgear panel. Add UL/CSA approved strain relief clamps to knockout holes.

4. Connect the AC LOAD cables (not provided) to the terminals in the AC Switchgear panel.

5. Install the PV disconnect plugs and set aside. Route all AC, DC, and PV wiring through the AC Switchgear panel.

6. Add UL/CSA approved strain relief clamps to knockout holes.

7. Install the cable gland strain relief (not supplied) onto the knockout holes. NOTE: Connections between the MPPT and the DC Switchgear panel are pre-wired. Incoming PV wires are routed through the AC Switchgear panel knockouts only.

8. Connect the battery disconnect terminals to the battery bank. For details, see the Install manuals for each device. The loose ends will be attached to the PDP for transport. See markings for details.

**E2** Wiring – Battery Temperature Sensors (BTS)

**NOTE:** For more information, see the Conext MPPT 60 150 Solar Charge Controller Installation and Owner’s Guide (975-0400-01-01).

Install the Battery Temperature Sensors (BTS) for the inverter and charge controller. If stacking with other cables, stack the sensor on top of the power cable. Install sensors at the hottest area of the battery bank. For details, see the install manuals for each device. The loose ends will be attached to the PDP for transport. See markings for details.

**F** Commissioning

Complete the commissioning, configuration, and start-up procedures in the following documents to commission each device on the Conext Quick Fit SW 4024:
- Conext SW Inverter/Charger (Conext SW 2524 120/240, Conext SW 4024 120/240, Conext SW 4048 120/240) Installation Guide (975-0639-01-01)
- Conext MPPT 60 150 Solar Charge Controller Installation and Owner’s Guide (975-0400-01-01)
- Conext System Control Panel Owner’s Guide (975-0298-01-01)

**G** Specifications

For more information, see the Installation or Owner’s manual for each device.

- Total weight: 175 lb (79 kg)
- IP rating: NEMA Type 1
- Mounting Location: Indoor only

**Dimensions**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>35.34 in</td>
</tr>
<tr>
<td>Width</td>
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</tr>
<tr>
<td>Depth</td>
<td>1178.7 mm</td>
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</tbody>
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