**Safety 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.

The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed. This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

**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**

- **Section**
- **Step**
- **Safety**
- **Connection**
- **Expand**
- **Label**

**Exclusion for Documentation**

UNLESS SPECIFICALLY STATED IN IN this MANUAl, Y ou ARE NOT SUBSTITUTED FOR ANY DECISIONS OR OTHER INFORMATION FOUND IN THIS MANUAL OR OTHER DOCUMENTS.

- (A) ASSUMES NO RESPONSIBILITY FOR LIABILITY FOR DAMAGES, INJURIES, OR OTHER IMPACTS WHICH MIGHT ARISE OUT OF THE USE OF SUCH INFORMATION. THE USE OF ANY SUCH INFORMATION IS AT THE USER’S RISK; AND
- (B) ASSUMES NO RESPONSIBILITY OR LIABILITY FOR LOSSES, DAMAGES, COSTS OR EXPENSES, WHETHER SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL, WHICH MIGHT ARISE OUT OF THE USE OF SUCH INFORMATION. THE USE OF ANY SUCH INFORMATION WILL BE ENTIRELY AT THE USER'S RISK; AND
- (C) THE INFORMATION PROVIDED IN THIS MANUAL IS IN ANY LANGUAGE OTHER THAN ENGLISH, ALTHOUGH EFFORTS HAVE BEEN MADE TO MAINTAIN THE ACCURACY OF THE TRANSLATION, THE ACCURACY CANNOT BE GUARANTEED. APPROVED CONTENT IS CONTAINED WITH THE ENGLISH LANGUAGE VERSION WHICH IS POSTED AT WWW.SCHNEIDER-ELECTRIC.COM.

**Tools and Equipment**

The following materials and tools are not supplied but are required to complete the installation:

- Personal protective equipment (PPE)
- Voltage meter
- Locks and tags
- Screwdriver and drill set (powered and manual)
- 3/8 in mounting screws (x6)
- Motorized hand trucks and/or portable crane system
- Cable crimper
- Cable cutter

**Installation – Specifications**

- Conext™ Quick Fit XW+ H consists of an Inverter/Charger, 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 XW+ H is preassembled on a backplate for quick and easy installation.

**Introduction**

The Conext Quick Fit XW+ H is preassembled on a backplate for quick and easy installation. Before reviewing this document, you must be familiar with that information before proceeding.

**Installation – Mounting**

- For structural and seismic stability, this equipment must be mounted onto a vertical supporting surface strong enough to support a minimum of 715 lbs (325 kg), and with mounting hardware that can also support this weight.

NOTE: All components except the lift handles are supplied pre-assembled.

**Tools and Equipment**

- 3/8 in mounting screws (x6)
- Screwdriver and drill set (powered and manual)
- Voltage meter
- Personal protective equipment (PPE)
- Motorized hand trucks and/or portable crane system
- Cable crimper
- Cable cutter

**Installation – Mounting**

- Lift equipment must be able to support a minimum of 238 lbs (108 kg).

**Installation – Mounting**

- AC (grid) terminals (L1, L2)
- AC Neutral bus bar
- AC Ground bus bar
- Battery+ and Battery- terminals

**Introduction – Wiring Connections**

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 XW+ H. 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.

**WARNING**

HAZARD OF CRUSH INJURY AND EQUIPMENT DAMAGE

- All components except the lift handles are supplied pre-assembled.

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**

- **Section**
- **Step**
- **Safety**
- **Connection**
- **Expand**
- **Label**

**Exclusion for Documentation**

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**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 practice.
- 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.
- Replace all devices and covers before turning on power to this equipment.

**Lock Out & Tag Out**

- AC Cable Connection
- PV Cable Connection
- Battery Cable Connection

**D4 Wiring – Conext™ Mini Power Distribution Panel (PDP)**

**NOTE:** For more information, see the Conext Mini Power Distribution Panel Installation Guide (975-0735-01-01).

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Do not connect any powered device to this equipment during installation.
- Do not connect this equipment to a live power source prior to cabling and wiring. This equipment must be installed only by qualified personnel and serviced only by authorized service personnel equipped with appropriate PPE, verify that all circuits are de-energized using a suitably rated meter.

**WARNING**

- Connect the PV array negative (−) output to the solar charge controller terminal marked PV −.
- Install the Battery Temperature Sensors (BTS) for the inverter, battery monitor, 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.
- Use either bolted or screw terminals. Torque according to posted guidelines.

**D3 Installation – Cable Gland Installation**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Do not connect this equipment to a live power source prior to cabling and wiring. This equipment can be energized from three sources: DC from the PV array and the battery, and AC from the grid.
- Do not connect any powered device to this equipment during installation. Failure to follow these instructions will result in death or serious injury.

- Remove the PDP and MPPT covers.
- Remove the AC and battery knockout plugs and set aside.
- Install the cable gland strain relief (not supplied) onto the knockout hole.
- Install DC cables (not provided) between the battery disconnect terminals and the Mini PDP’s battery terminal lugs. NOTE: For the Conext Battery Monitor to work, the provided shunt must be wired to the battery (see the Conext Battery Monitor Owner’s Guide for details).
- Add UL/CSA approved strain relief clamps to knockout holes.

**D5 Wiring – Conext™ MPPT 80 600 Solar Charge Controller and Conext™ Battery Monitor**

**HAZARD OF FIRE**

- As per applicable electrical codes, fuses are required when paralleling (combining) more than two PV strings.
- Fuses must be installed in a combiner box or in a PV array disconnect switch.
- These items are not provided with the charge controller.

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

**WARNING**

- Connect the positive (+) cable from the PV disconnect to the solar charge controller terminal marked PV +.

**E Commissioning**

Complete the commissioning and configuration procedures in the following documents to commission each device on the Conext Quick Fit XW+ H:

- Conext XW Inverter/Charger (Conext XW+ 6848 NA, Conext XW+ 5548 NA) Owner’s Guide (975-0240-01-01)
- Conext MPPT 80 600 Solar Charge Controller Installation Guide (975-0540-01-01)
- Conext ComBox Installation and Configuration Manual (975-0679-01-01)
- Conext Battery Monitor Owner’s Guide (975-0691-01-01)

**F Specifications**

**Total weight** 238 lb (108 kg)

**IP rating** NEMA Type 1

**Mounting Location** Indoor only

**Dimensions**

<table>
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For more information, see the Install or Owner’s manual for each device.