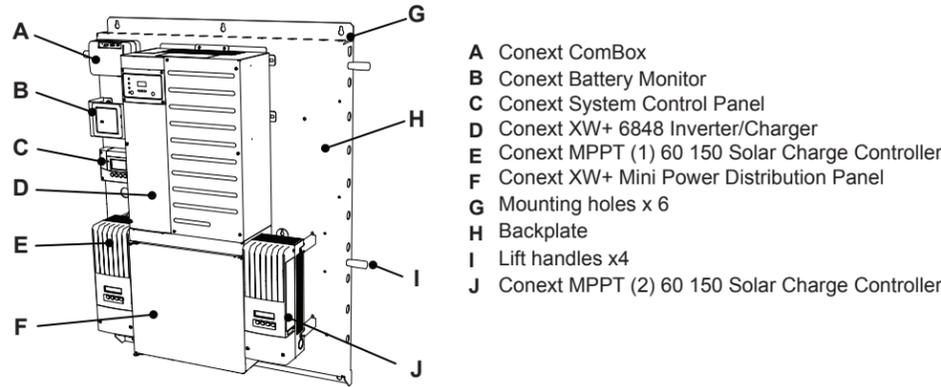


Quick Start Guide



B Introduction

The Conext Quick Fit XW+ L consists of an Inverter/Charger, Solar Charge Controllers, 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+ L is preassembled on a backplate for quick and easy installation.



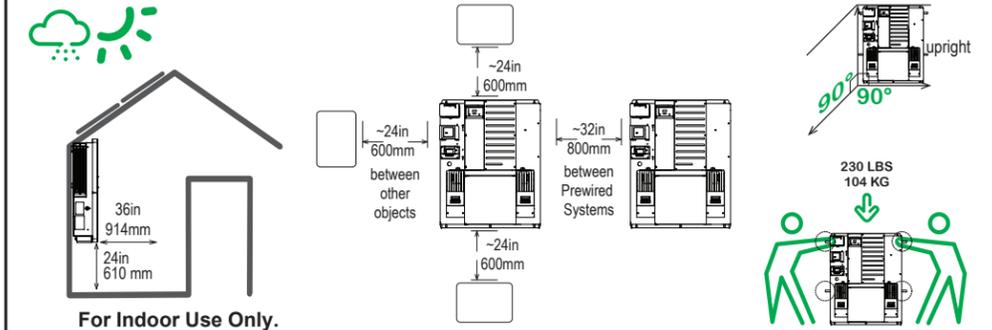
NOTE: All components except the lift handles are supplied pre-assembled.

C 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

D Installation – Specifications



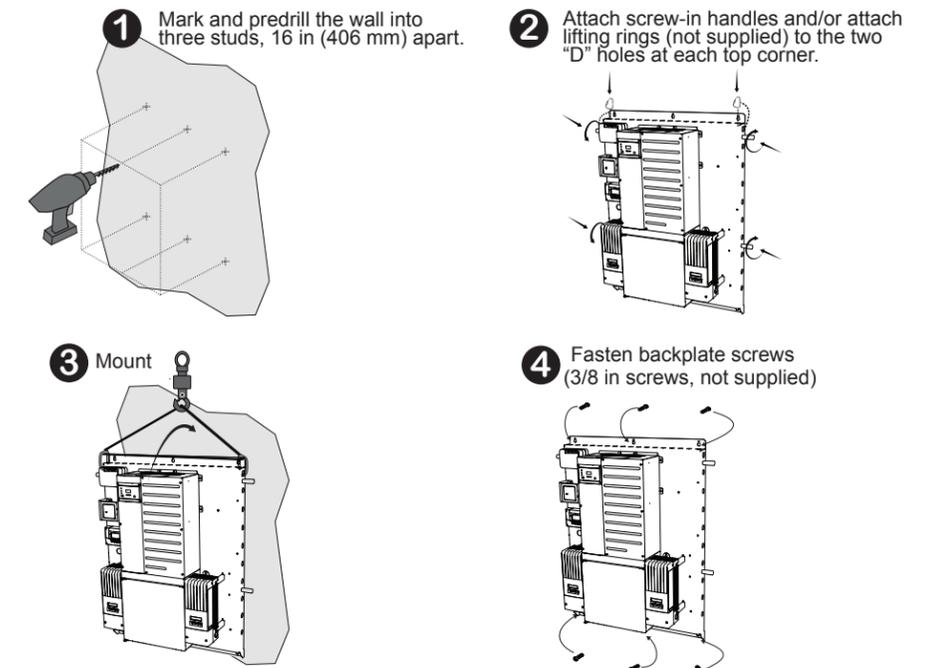
D1 Installation – Mounting

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 230 lbs (104 kg).
- For structural and seismic stability, this equipment must be mounted onto a vertical supporting surface strong enough to support a minimum of 690 lbs (313 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.



A Safety Information

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.

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.

⚠ DANGER

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

⚠ WARNING

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 **1** Step Safety Direction Expand **A** Label

Exclusion for Documentation

UNLESS SPECIFICALLY AGREED TO IN WRITING, SELLER

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

(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) REMINDS YOU THAT IF THIS MANUAL IS IN ANY LANGUAGE OTHER THAN ENGLISH, ALTHOUGH STEPS HAVE BEEN TAKEN 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.

Contact Information

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<https://solar.schneider-electric.com/>

Submit your support request online at: <https://solar.schneider-electric.com/tech-support/netsuite/>

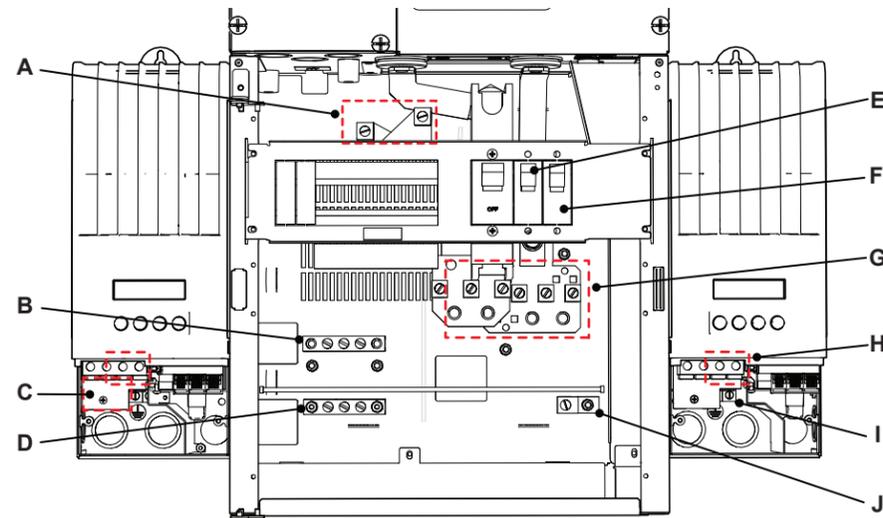
B1 Introduction – Wiring Connections

⚠ 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 XW+ L. 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 AC (grid) terminals (L1, L2)
- B AC Neutral bus bar
- C PV ground fuse*
- D AC Ground bus bar
- E Circuit breaker for MPPT 1
- F Circuit breaker for MPPT 2
- G Battery+ and Battery- terminals
- H PV+ and PV- terminals
- I PV ground terminals
- J Chassis ground terminals*

***NOTE:** The Conext Quick Fit XW Pro L comes as a negatively grounded PV system. Refer to the *Conext MPPT 60 150 Solar Charge Controller Installation and Owner's Guide (975-0400-01-01)* for alternate grounding instructions, and other grounding information.

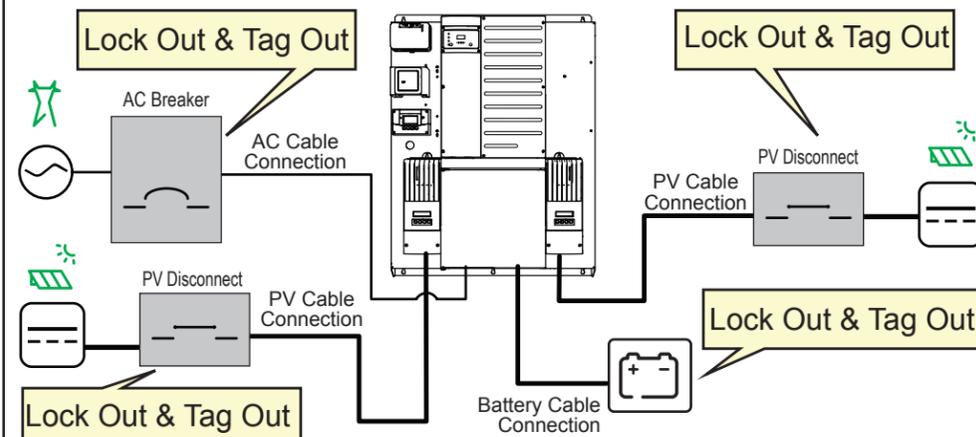
NOTE: The Network Terminators are located on the Conext ComBox and Conext Battery Monitor.

D2 Installation – Lock-out and Tag-out

⚠️ DANGER

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



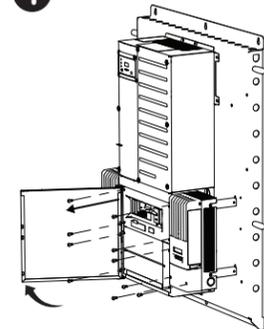
D3 Installation – Cable Gland Installation

⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

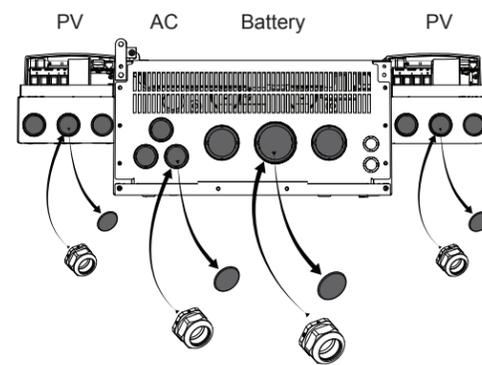
- Do not connect this equipment to a live power source prior to cabling and wiring. This equipment can be energized from three sources: DC from the PV array and the battery, and AC from the grid.
 - Do not connect any powered device to this equipment during installation.
- Failure to follow these instructions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

1 Remove the PDP and MPPT covers.



2 Remove the AC knockout plugs and set aside.

3 Install the cable gland strain relief (not supplied) onto the knockout hole.

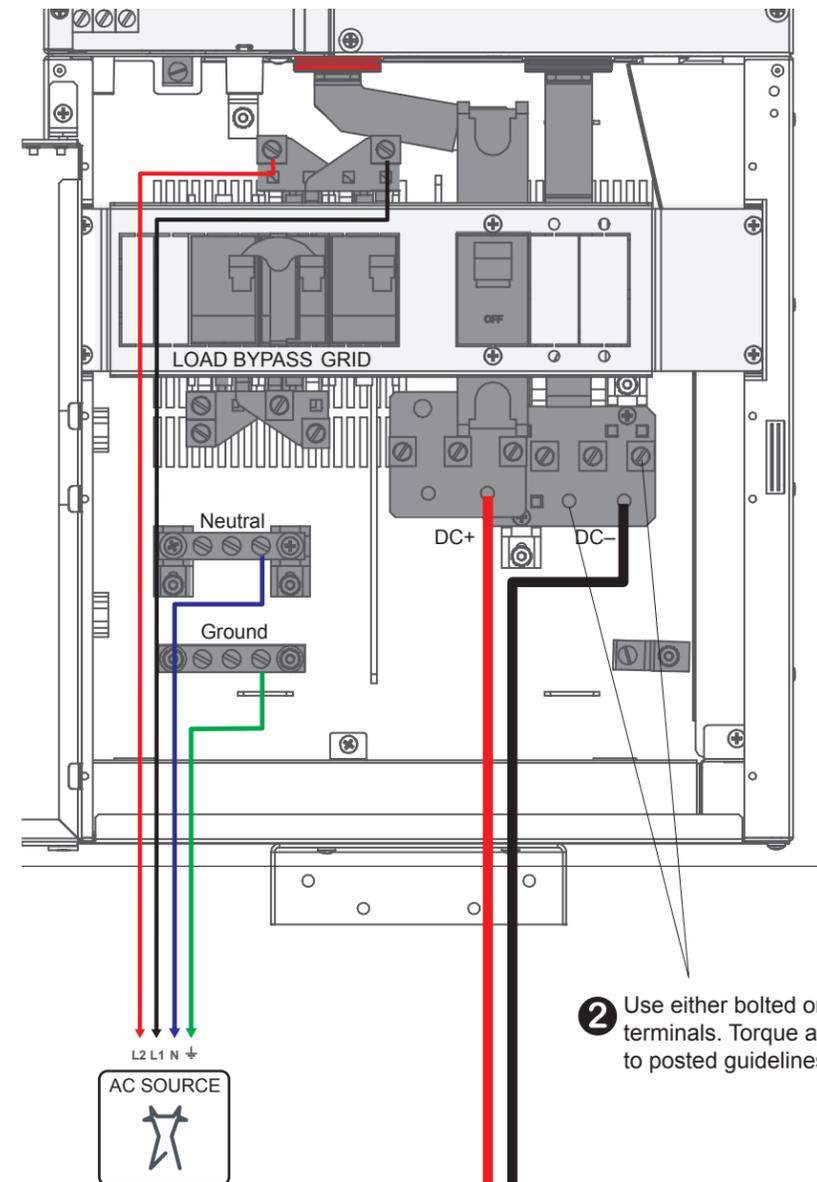


4 Remove the DC knockout plugs and set aside.

5 Install the cable gland strain relief (not supplied) onto the knockout hole.

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)*.



1 Install AC wires (not provided) between the L1 and L2 bypass terminal lugs 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 Use either bolted or screw terminals. Torque according to posted guidelines.

3 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 60 150 Solar Charge Controller and Conext™ Battery Monitor

⚠️ WARNING

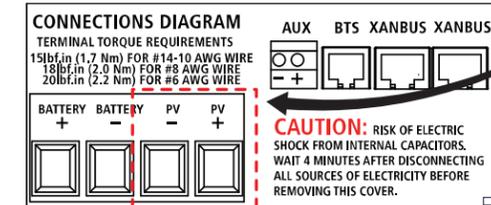
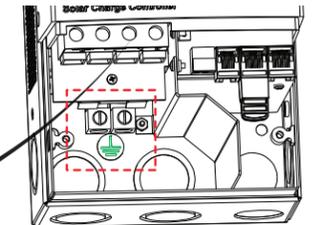
HAZARD OF ELECTRIC SHOCK OR FIRE

- Use a string combiner when connecting more than one PV string to the charge controller.
- 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.

1 Connect a grounding conductor between the solar charge controller ground lug and the PV array.

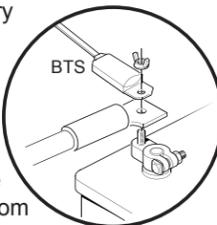
2 Connect the PV array negative (-) output to the solar charge controller terminal marked PV -.



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

For details, see the *Conext MPPT 60 150 Solar Charge Controller Installation Guide (975-0400-01-01)*.

4 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.



5 Connect the supplied RJ45 connector to the Pre-Scaler. **NOTE:** Due to cable length, the Pre-Scaler must be located within 3m of the bottom edge of the Quick Fit panel. For details about Pre-Scaler and shunt connections, see the *Conext Battery Monitor Owner's Guide (975-0691-01-01)*.

E Commissioning

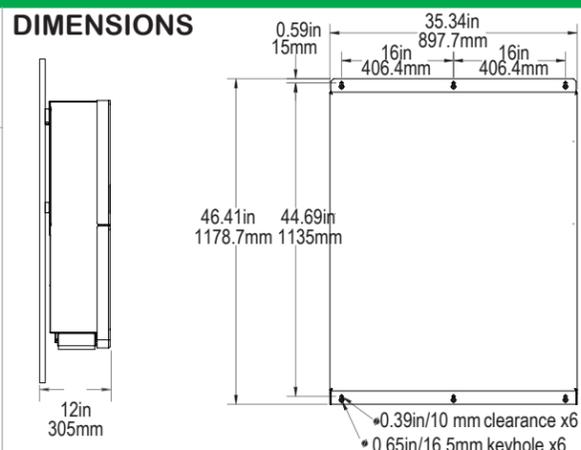
Complete the commissioning and configuration procedures in the following documents to commission each device on the Conext Quick Fit XW+ L:

- Conext XW Inverter/Charger (Conext XW+ 6848, NA Conext XW+ 5548 NA) Installation Guide (975-0239-01-01)
- Conext MPPT 60 150 Solar Charge Controller Installation and Owner's Guide (975-0400-01-01)
- Conext ComBox Installation and Configuration Manual (975-0679-01-01)
- Conext Battery Monitor Owner's Guide (975-0691-01-01)

F Specifications

Total weight	230 lb (104 kg)
IP rating	NEMA Type 1
Mounting Location	Indoor only

DIMENSIONS



For more information, see the Install or Owner's manual for each device.