**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.

**C Tools and Equipment**

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

- **Personal protective equipment (PPE):** Motorized hand trucks and/or portable crane system
- **Locks and tags:** Cable crimper
- **Screwdriver and drill set (powered and manual):** Cable cutter
- **3/8 in mounting screws (46)***

**D Installation – Specifications**

**For Indoor Use Only.**

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.

**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.

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' Rings at each top corner.
3. Mount
4. Fasten backplate screws (3/8 in screws, not supplied)
Lock Out & Tag Out

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 is energized from multiple sources—the DC inputs and the AC grid.
- Before opening any doors or covers, consult system diagram to identify all power sources. This equipment is energized from multiple sources—DC inputs and the AC grid.
- When the PV array is exposed to light, it supplies a DC voltage to this equipment.
- Do not energize this equipment with the covers removed.
- Never energize this equipment with the covers removed.
- 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.
- The AC cables are connected to the AC Disconnect Box, the Mini PDP, and the MPPT 60 150 solar charge controller.
- The DC cables are connected to the Battery Monitor, the PDP, and the MPPT 60 150 solar charge controller.
- Do not connect any powered device to this equipment during installation.
- Failure to follow these instructions will result in death or serious injury.

Lock Out & Tag Out

AC Breaker
AC Cable Connection
PV Cable Connection
PV Disconnect
Battery Cable Connection

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

NOTE: For more information, see the Conext Mini Power Distribution Panel Installation Guide (975-0375-01-01).

1. Remove the AC knockout plugs and set aside.
2. Install the cable gland strain relief (not supplied) onto the knockout hole.
3. Install the cable gland strain relief (not supplied) onto the knockout hole.
4. Remove the AC knockout plugs and set aside.

D5
Wiring – Conext™ MPPT 60 150 Solar Charge Controller and Conext™ Battery Monitor

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.

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+.

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)
- Conext Quick Fit XW+ L Installation Guide (865-6848-01LPS)

F
Specifications

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

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