**Power Distribution Panel (PDP) and parts for connecting to the Conext XW+ inverter/charger**

**NOTE:** AC breakers (3x QOU260) and AC cables (#6 and #2 AWG) are not included with model 865-1014-01.

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**Important Safety Information**

**Read and Save These Instructions - Do Not Discard**

This Guide is intended for anyone who needs to operate, configure, and troubleshoot the Conext XW+ Inverter/Charger. Certain configuration tasks should only be performed by qualified personnel in consultation with your local utility and/or an authorized dealer. Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. Servicing of batteries must only be performed or supervised by qualified personnel with knowledge of batteries and their required precautions. Failure to follow these instructions will result in death or serious injury.

Qualified personnel have training, knowledge, and experience in:

- Installing electrical equipment
- Applying safe installation codes
- Avoiding hazards involved in performing electrical work
- Installing and configuring batteries
- Selecting and using Personal Protective Equipment (PPE)

No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

**A** Important Safety Information

1. Before using the inverter, read all instructions and cautionary markings on the unit, the batteries, and all appropriate sections of this manual.
2. Conext XW+ Inverter/Charger is not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to personnel.
3. The inverter is designed to be permanently connected to your AC and DC electrical systems. The manufacturer recommends that all wiring be done by a certified technician or electrician to ensure adherence to the local and national electrical codes applicable in your jurisdiction.
4. To avoid a risk of fire and electric shock, make sure that existing wiring is in good condition and that wire is not damaged or exposed. Do not operate the inverter if damaged or exposed wire is found.
5. Do not operate the inverter if it has been damaged in any way.
6. This unit does not have any user-serviceable parts. Do not disassemble the inverter except where noted for connecting wiring and cables. See your warranty for instructions on obtaining service. Attempting to service the unit yourself may result in a risk of electrical shock or fire. Internal capacitors remain charged after all power is removed.
7. To reduce the risk of electrical shock, disconnect both AC and DC power from the inverter before attempting any maintenance or cleaning or working on any components connected to the inverter. Pulling the unit in Standby mode will not reduce this risk.
8. The inverter must be protected with an equipment grounding conductor connected to the AC input ground. Failure to follow this instruction will result in death or serious injury.
9. Do not expose this unit to rain, snow, or liquids of any type. This product is designed for indoor use only. Damper environment will significantly shorten the life of this product and corrosion caused by dampness will not be covered by the product warranty.
10. To reduce the chance of short-circuit, always use insulated tools when installing or working with this equipment.
11. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with electrical equipment.

**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

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

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

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.

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**MATERIALS LIST**

**Factory Installed Components**

- 2 x 320A, 120 VDC, 3/8" stud DC breaker

**Other mounting hardware:**

- 3 x #6 screws
- 3 x plastic bushings
- 1 x GJ 250A, 160 VDC, 3/8" stud DC breaker

**Connecting Conext MPPT Solar Charge Controllers to the PDP**

Additional DC breakers are required for connecting MPPT 80 150 and MPPT 80 600 solar charge controllers to the PDP. Contact Schneider Electric customer service for the number of DC breakers needed for your system.
C  Knockout Dimensions

EQUIPMENT DAMAGE

Do not drill, cut or punch holes into the Conduit Box, XW+ chassis, or Power Distribution Panel. Use only the knockouts provided for conduit entry. Failure to follow these instructions can result in damage to equipment.

When removing your choice of knockouts, ensure no debris remains inside the chassis. Insert appropriately-sized conduit bushings.

Notice:

Top Knockouts

Knockouts for installing
electrical conduit
1/2" trade (22.2 mm or PG16)
4x Inner: 1/4" trade (6.5 mm)
Outer: 3/8" trade (11.2 mm)

Bottom Knockouts

Knockouts for installing
electrical conduit
1/2" trade (22.2 mm or PG16)
12x Inner: 1/4" trade (6.5 mm)
Outer: 3/8" trade (11.2 mm)

Side Knockouts

Knockouts for installing
electrical conduit
1/2" trade (22.2 mm or PG16)
16x Inner: 1/4" trade (6.5 mm)
Outer: 3/8" trade (11.2 mm)

Holes for mounting
Conext MPP7 80 150
solar charge controllers

D  Installing Wall Brackets

Choose recommended mounting hardware

Wall mount fasteners are not included with the PDP. Use the type of fastener appropriate for the wall material.

<table>
<thead>
<tr>
<th>Structure</th>
<th>Required Fastener</th>
<th>Screws per Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood studs 16&quot; O.C.</td>
<td>1/4&quot; Ø x 3 1/2&quot; long lag screw</td>
<td>4</td>
</tr>
<tr>
<td>Wood studs 16&quot; O.C.</td>
<td>1/4&quot; Ø x 1&quot; long wood screw</td>
<td>6</td>
</tr>
<tr>
<td>Steel studs 16&quot; O.C.</td>
<td>1/4&quot; Ø self-drilling screw</td>
<td>4</td>
</tr>
</tbody>
</table>

Install the mounting plates

- The Conext XW+ and PDP use identical interlocking mounting plates.
- Use a level to ensure the first mounting plate for the XW+ unit is level. Install adjacent mounting plates for additional XW+ units and PDP without additional measuring or leveling.
- If necessary, enhance wall surface with 3/4" plywood panel spanning at least three wall studs.
**Conext Power Distribution Panel Installation Guide**

**865-1015-1 | 865-1014-01**

solar.schneider-electric.com

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### E Wall Mounting the PDP

1. **Wall mount the Conext XW+**
   - Before mounting the PDP, attach the Conext XW+ to the mounting plate as shown.
   - For detailed mounting instructions, see the Conext XW+ Inverter/Charger Installation Guide

2. **Wall mount the PDP**
   - **CAUTION**
     - DAMAGE TO EQUIPMENT
     - Before releasing the full weight of the unit, make sure the PDP is seated properly on the mounting plate. Failure to follow these instructions can result in minor or moderate injury.

   1. Align the flange on the back of the PDP with the bottom edge of the mounting plate and lower the PDP onto the plate.
   2. Secure the PDP to the wall with two #10 self-tapping screws in the bracket on the top of the unit.

### F Removing the PDP Door and Faceplates

1. **Remove the PDP door**
   - Remove the top and bottom screws holding the door in place
   - Door swing out distance: 25" (650 mm)
   - **Optional**: To mount the door on the other side of the unit, remove the top and bottom screws holding the pins in place and reattach on the opposite side.

2. **To access the wiring and breakers, remove the upper and lower faceplates on the PDP**
   - Remove breaker knockouts as needed
   - Elastic retaining strap for storing manuals

### G Installing the Conduit Box

Mount the Conduit Box to the bottom of the XW+ inverter/charger and secure to the wall.

For detailed mounting instructions, see the Conext Conduit Box Installation Guide.

### H Wiring the PDP

The PDP models 865-1015-01 come with DC battery cables, AC cables, and ground cables factory-installed, labelled and ready for connection.

For detailed instructions and wiring diagrams, see the Conext XW+ Inverter/Charger Installation Guide.
I) Installing the Surge Arrestor Rail (Optional)

The surge arrestor rail is optional to install.

Mounting considerations:
- If you install more than six AC breakers, there may not be enough room for the surge arrestor rail. In this case, use the appropriate top or side knockouts for installing the surge arrestors individually (see B – Knockout Dimensions).
- If you are mounting MPPT charge controllers on the side of the PDP, use the top knockouts for installing surge arrestors.

The following surge arrestor devices are available from Schneider Electric:
- Square D SDSA1175
- Square D SDSA3650

1. Attach the side brackets to the metal studs using the nuts provided.

2. Attach the surge arrestors (not provided with the PDP), to the rail, feeding the wires through the cutouts.

3. Attach the rail to the side brackets using the four screws and washers provided.

J) Additional PDP Accessory Kits

The following Conext XW+ accessory kits are available for connecting second and third inverter/chargers to the Conext PDP:
- Conext XW+ Connection Kit for INV2 INV3 PDP (864-1020-02)
- Conext XW+ 120/240V VAC Breaker Kit (865-1215-01)
- Conext XW+ Three-Phase Breaker Kit (865-1315-01)