**Important Safety Instructions**

**READ AND SAVE THESE INSTRUCTIONS - DO NOT DISCARD**

**DANGER**

**ELECTRIC SHOCK, EXPLOSION, AND ARC FLASH HAZARDS**

All wiring must be done by qualified personnel to ensure compliance with all applicable installation codes and regulations. Disconnect and lockout all DC and AC sources that are powering this equipment and any connected equipment before installing, servicing, and performing any upgrades.

Always wear proper personal protective equipment (PPE) before working on or inside this equipment.

Always use a properly rated voltage sensing device to check the presence of potential and residual energy.

Do not route and mix DC cables and wires with AC cables and wires within the same compartment. This equipment is equipped with a partition (item M) that isolates AC wiring from DC wiring.

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

**NOTICE**

**EQUIPMENT DAMAGE**

Do not remove the pre-installed Handle Interlock device (item C). Failure to follow these instructions can cause equipment damage.

**NOTE:** The double pole breakers (items D, E, F) are used for a dual line application. For a single line application, use only L1 line for AC input. Do not use L2 line for AC input.

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**Materials List**

The Conext SW AC Switchgear (865-1017) ships with the following items:

1x Installation Guide/Mounting Template
1x Switchgear Box
1x Switchgear Cover
2x Double-pole 30-amp AC Breaker (bundled)
4x Jumper Bar (pre-installed)
1x Handle Interlock Device (pre-installed)
2x 10AWG AC Wire (black, pre-wired)
2x 10AWG AC Wire (red, pre-wired)
1x 10AWG AC Wire (white, pre-wired)
1x 12AWG Ground Wire (green, pre-wired)
4x Terminal buses (one each - L1, L2, Ground, Neutral)

**Installation**

1. Choose a location to mount the AC switchgear. If you already have a Conext SW inverter/charger unit installed, the AC switchgear can be positioned directly underneath (see an illustration on the back page) or on top of the inverter/charger.

2. The Conext SW AC Switchgear unit installed, the AC switchgear can be positioned directly below the inverter. See OPTION 2.

3. Mount the AC switchgear. Use the mounting holes on the mounting surface.

4. Make the proper wiring connections. Use only qualified personnel to ensure compliance with all applicable installation and electrical codes and regulations.

5. Replace the AC switchgear cover. Secure the cover using the same screws that came with the product.

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**Installation Guide**

- **AC OUTPUT L2 wire.** Connect this wire to the inverter's AC OUTPUT L2 terminal.
- **AC OUTPUT L1 wire.** Connect this wire to the inverter's AC OUTPUT L1 terminal.
- **AC INPUT L1 jumper bar terminal.** Attach the incoming AC Source L1 wire to this terminal. Use proper torque (values posted inside unit) to secure the wire.
- **AC INPUT L2 jumper bar terminal.** Attach the incoming AC Source L2 wire to the terminal. Use proper torque (values posted inside unit) to secure the wire.
- **AC INPUT L1 wire.** Connect this wire to the inverter's AC INPUT L1 terminal.
- **AC INPUT L2 wire.** Connect this wire to the inverter's AC INPUT L2 terminal.
- **AC Neutral wire.** Connect this wire to the inverter's AC INPUT Neutral terminal.
- **AC Neutral bus bar.** Attach other Neutral wires to a vacant terminal. Use proper torque (values posted inside unit) to secure the wire.
- **AC Ground bus bar.** Attach other Ground wires to a vacant terminal. Use proper torque (values posted inside unit) to secure the wire.
- **AC Ground wire.** Connect this wire to the inverter's Ground terminal.
- **AC INPUT breaker.** Provides overcurrent protection from incoming AC current.
- **AC OUTPUT breaker.** Provides overcurrent protection from outgoing AC current.
- **AC BYPASS breaker.** Passes AC current through from the source to the inverter.
- **Interlock device (item C).** It prevents the AC BYPASS (item E) and AC OUTPUT (item F) breakers from being “on” (closed) at the same time.
- **Handle Interlock device.** Prevents the AC BYPASS (item E) and AC OUTPUT (item F) breakers from being “on” (closed) at the same time.
- **DC wire compartment.** Use this compartment to route DC cables and wires through.
- **Partitions or barriers.** Use this compartment to route AC cables and wires through.
- **DC wire compartment.** Use this compartment to route DC cables and wires through.
- **Wiring partition or barrier.** Use this compartment to route DC cables and wires through.
- **M64**

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**Knockout Dimensions**

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
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<tbody>
<tr>
<td>1/2&quot;</td>
<td>M13</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>M19</td>
</tr>
<tr>
<td>1&quot;</td>
<td>M25</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>M34</td>
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Mounting the AC switchgear under the inverter/charger

1. Line up the top of the mounting template to the bottom of the inverter/charger.
2. Line up the up arrow above to the left edge of the inverter/charger.
3. Mark the surface wall and pre-drill.
4. Drive the screws halfway to the wall and hang the switchgear on the screws.
5. Push the switchgear up to flush against the inverter/charger’s bottom and fasten the #10 (M5) screws to the wall.

Recommended

1. Line up the folded bottom of the mounting template to the top of the inverter/charger.
2. Line up the down arrow below to the left edge of the inverter/charger.
3. Mark the surface wall and pre-drill.
4. Place the switchgear over the inverter/charger and line up the mounting holes with the pre-drilled holes on the wall.
5. Fasten the #10 (M5) screws to the wall to secure the switchgear.

NOTE: With this option, the supplied wires (Item A, B, G, and H) will not reach the inverter. Use and cut appropriate wires with the same gauge and termination as the supplied wires.

Use a #4 (M3) screw to secure the AC switchgear to the DC switchgear, if necessary.

NOTE: The DC wire compartment must be on this side.

Conext SW DC Switchgear (865-1016)

Mandatory for installations in Canada and USA.

To order, contact a sales representative.