Conext™ SW DC Switchgear (865-1016)
Installation Guide

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 E) that isolates DC wiring from other wiring.

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

**NOTICE**

**EQUIPMENT DAMAGE**

Do not use this product with another inverter/charger device. The DC Switchgear is custom-designed to work with the Conext SW inverter/charger only.

Failure to follow these instructions can cause equipment damage.

Materials List

The Conext SW DC Switchgear (865-1016) ships with the following items:

- 1x Installation Guide
- 1x Switchgear Box
- 1x Switchgear Cover
- 1x 250-amp DC Breaker (pre-installed)
- 1x Positive copper bus bar (pre-installed)
- 1x Negative copper bus bar (pre-installed)

Installation

1. Choose a location to mount the DC switchgear. The DC switchgear can only be positioned directly to the left of the Conext SW inverter/charger. See an illustration on the back page.

2. Remove the DC switchgear cover to expose the mounting key holes.

3. Mount the DC switchgear. With a Conext SW inverter/charger already installed, the DC switchgear can be hung on the mounting brackets that extend from the inverter/charger (see back page for an illustration).

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

5. Mount the System Control Panel (SCP) on the DC switchgear cover (item O), if applicable. Remove the blanking plate first before installing the SCP.

6. Replace the DC switchgear cover. Secure the cover using the same screws that came with the product.

![Diagram of DC Switchgear]

**Materials:**

- **Switchgear Cover**
- **Switchgear Box**
- **Switchgear Cover**
- **Positive Copper Bus Bar**
- **Negative Copper Bus Bar**
- **Mounting Bracket for DC Breakers**
- **DC Wire Compartment**
- **Wiring Barrier**
- **AC Knockouts (Top and Bottom)**
- **DC Knockouts (Top and Bottom)**
- **AC Knobs (Top and Bottom)**
- **DC Knobs (Top and Bottom)**
- **SCP Panel Cutout with Blanking Plate**
- **Mounting Bracket for DC Breakers**

**Approved DC Breakers:**

<table>
<thead>
<tr>
<th>SE PN</th>
<th>Approved DC Breakers</th>
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<tbody>
<tr>
<td>865-1070</td>
<td>BREAKER 60A 125VDC PANEL MOUNT</td>
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<tr>
<td>865-1075</td>
<td>BREAKER 60A 160VDC PANEL MOUNT</td>
</tr>
<tr>
<td>865-1080</td>
<td>BREAKER 100A 125VDC PANEL MOUNT</td>
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</tbody>
</table>

Over-current protection (DC breaker) must be installed to protect a DC source (like a solar charge controller) from short circuits and to provide a means of disconnecting the DC source. Consult local electrical codes to establish the correct fuse or circuit breaker rating.

For use by qualified installers only.
Mounting the DC switchgear on the mounting bracket of the inverter/charger

1. Prepare four #10 (M5) machine screws. Use two screws to secure the DC Switchgear to the installation brackets of the Conext SW and two screws to secure the connecting bracket. The connecting bracket attaches to the Conext SW and DC Switchgear.
2. Remove the nuts and washers from the inverter/charger’s DC terminals, if present.
3. Position the DC Switchgear next to the inverter/charger carefully aligning the mounting holes with the pre-cut mounting holes on the installation bracket and the copper bus bar connectors with the inverter/charger’s DC terminals.
4. Fasten the screws to the mounting holes on the DC Switchgear with the pre-cut mounting holes on the installation bracket of the inverter/charger.
5. Fasten the screws to the connecting bracket to join the DC Switchgear and the Conext SW together.
6. Fasten the nuts and washers of the inverter/charger’s DC terminal bolts to secure the copper bus bars.


tools needed

1x power drill
1x screw driver set (phillips and flathead)
4x #10 (M5) machine screws