

Power Distribution Panel



The XW Power Distribution Panel (XW PDP) is factory-wired and labeled to support a code-compliant single-inverter installation. It has plenty of room to add wiring and breakers to expand the XW System with up to three inverters, four charge controllers, or other equipment to support 120/240-volt, three-wire, single-phase systems. With a field-reversible door and multiple conduit knockout locations, the PDP can be configured to mount on either side of the inverter/charger.

The XW Power Distribution Panel (XW PDP) is designed to save significant time and money during installation, taking less than 25 percent of the time to install, when compared to competing solutions. A mounting plate and XW Conduit Box is supplied with each XW PDP.

Product Compatibility

The distribution panel and conduit box interface with the following products:

- ▶ XW Connection Kit (for second XW Hybrid Inverter/Charger) and XW Conduit Box
- ▶ XW4024, XW4548, and XW6048 Inverter/Chargers
- ▶ XW Solar Charge Controllers (requires customer-supplied breakers and wiring)
- ▶ C-Series Charge Controllers (requires customer-supplied breakers and wiring)

XW PDP Dimensions (H x W x D): 30 x 16 x 8.25" (761 x 406 x 210 mm)

Shipping Dimensions (H x W x D): 48 x 21 x 13.5" (1220 x 533 x 343 mm)

Shipping Weight: 67.2 lb (30.5 kg)

XW PDP (product number: 865-1015) ships with:

Power Distribution Panel enclosure with a field-reversible panel door, pre-wired with:

- ▶ Three 60 A, 120/240 Vac, two-pole, Square-D, Type QOU, DIN-rail mounted AC breakers for AC input, Bypass, and AC Load
- ▶ One GJ250A 160 Vdc, 3/8" stud DC breaker
- ▶ One ground terminal bus bar
- ▶ One neutral terminal bus bar
- ▶ One battery negative terminal bus bar
- ▶ One pair #4/0 AWG Arctic Ultraflex Blue™ Battery Cables (factory installed and labeled, ready to connect)
- ▶ #6 AWG Arctic Ultraflex Blue™ AC wiring (factory installed and labeled, ready to connect)
- ▶ Room to expand - Five additional AC breaker positions for two-pole, 60 A Square D, Type QOU breakers; 10 additional DC breaker positions (eight for charge controller breakers and two for large GJ inverter breakers)
- ▶ Mounting Plate
- ▶ XW Conduit Box

*Internal wire barriers (or raceways) are included to keep communications wires separate from AC and DC power wires.

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XW - Connection Kit for a second XW Hybrid Inverter/Charger (Part number: 865-1020)

The XW Connection Kit for a second inverter (part number 865-1020) is the extension kit required for connecting a second or third XW Inverter/Charger in the XW Power Distribution Panel. It includes:

- ▶ XW Conduit Box
- ▶ Three 60 A, 120/240 Vac, two-pole, Square-D, Type QOU, Din-Rail mountable, AC breakers
- ▶ Custom designed bypass interlock plate
- ▶ #6 AWG AC wiring to connect the inverter to the AC breakers
- ▶ Four power distribution bus bars (replaces factory-installed bars)
- ▶ One GJ250A 160 Vdc, 3/8" stud DC breaker
- ▶ One bus bar for DC positive
- ▶ One pair #4/0 AWG battery cables
- ▶ AC Sync and Xanbus™ cables

Shipping Dimensions (H x W x D): 17.5 x 13 x 12" (445 x 330 x 305 mm)

Shipping Weight: Weight 23.1 lb (10.5 kg)

XW Conduit Box (Part number: 865-1025)

The XW Conduit Box mounts directly to the bottom of an inverter/charger to safely protect end-users from inadvertent contact with wiring or connections. It comes bundled with the XW Power Distribution Panel and the XW Connection Kit; however, it is also available separately for systems larger than two inverters, or to retrofit inverters into existing systems which may already have AC/DC disconnects.

The Conduit Box is easily secured with two screws provided on the bottom of the inverter. The bottom flange of the conduit box can then be attached (fasteners not provided) to the wall to complete the installation. The front panel of the conduit box can be removed by removing the two screws on the front, allowing ample space to make all necessary wire connections.

In multi-unit installations, the sides of adjacent conduit boxes can be removed to create an effective raceway with lots of volume to run AC and DC inverter cabling. The conduit box also includes multiple cable strap points, allowing the final installation to look clean and professional.

In addition, an internal sheet metal barrier is included to keep communications wires separate from AC and DC power wires.

Conduit Box Dimensions (H x W x D): 8.5 x 16 x 8.25" (229 x 406 x 210 mm)

Shipping dimensions (H x W x D): 17.5 x 13 x 12" (445 x 330 x 305 mm)

Shipping weight: 10.0 lb (4.6 kg)

