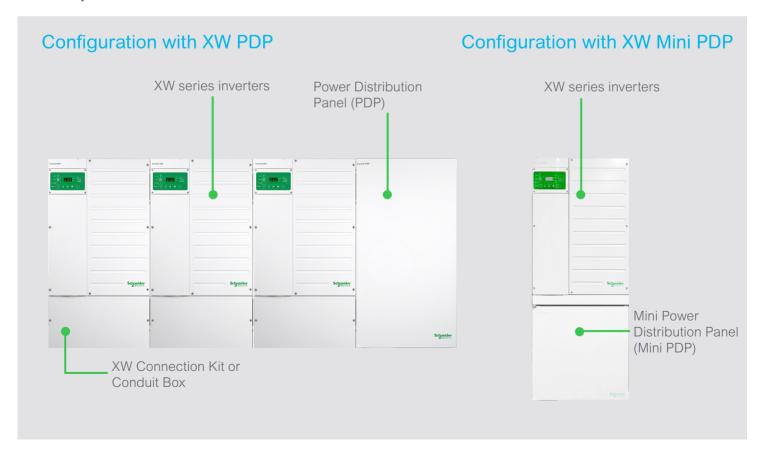
ConextTM XW Series Power Distribution

Easy to install, flexible and scalable balance of system solutions

Conext[™] XW Power Distribution Panels offer flexibility for your solar and storage system design, including:

- Mini-Power Distribution Panel and Power Distribution Panel
- XW Connection Kit
- XW Conduit Box
- Compatible Breakers



XW Mini Power Distribution Panel

The XW Mini Power Distribution Panel (Mini PDP) provides a compact, easy to install DC and AC power distribution cabinet compatible with the Conext XW series inverters. The Mini PDP can be used for managing power distribution to the XW inverter, MPPT Charge Controllers, the battery, and a generator.

The PDP is designed for compact installation below the XW inverter and easy installation:

- Includes a main 250 A DC breaker for the battery
- Includes AC breakers for AC input, Bypass, and AC Out (load)
- · Breaker expansion positions on DC side for solar charge controllers and AC side for generator or AC coupled PV inverter
- AC wiring and DC bus bars for direct connection to the XW inverter
- Split phase, single phase applications
- Mounts below the XW inverter
- Multiple conduit knockouts and a field reversable door
- · Compatible with Conext MPPT charge controllers, and includes mounting provisions for MPPT 60 150 Charge Controllers on the either side
- Saves installation time with a pre-wired solution

XW Mini PDP	005 1010 01				
Part number	865-1013-01				
Standards	UL				
AC Distribution					
la alcela el la sa alcada	Three 60 A, 120/240 Vac, two-pole, Square D QOU260 AC breakers for AC input, bypass and AC load				
Included breakers	(factory-installed)				
Mounting	DIN rail (35 mm)				
Breaker expansion positions	One additional expansion position for a 2 pole Square D QOU breaker				
AC wising	Factory installed and labeled Arctic Ultraflex Blue™ wiring, including five #6 AWG Arctic AC cables for AC				
AC wiring	connections: L1, L2, Neutral				
DC Distribution					
Included breakers	One GJ 250A 160 Vdc, 3/8" stud DC breaker installed				
Mounting	Panel mounted				
Description of the second of t	2 expansion positions for charge controller DC breakers. Can be used for outputs of MPPT 60/80/100, as				
Breaker expansion positions	well as MPPT 60 input.				
DC wiring	Integrated DC busbars for easy installation with the XW series inverters				
General Specifications					
Wiring connections	Termination lugs for ground, AC neutral and DC bus bar for battery connection				
Enclosure	Indoor rated, field-reversible panel door and integrated wall mounting bracket				
Certification	UL1741, CSA107.1				
Product dimensions (H x W x D)	47.0 x 40.6 x 22.5 cm (18.5 x 16 x 8.9 in). 24.9 in door swing clearance, measured from back of unit				
Shipping dimensions (H x W x D)	53.5 x 56.5 x 33 cm (21.0 × 28.6 × 13.0 in)				
Shipping weight	13 kg (28.2 lb)				



XW Power Distribution Panel

The XW Power Distribution Panel (PDP) provides an easy to install DC and AC power distribution cabinet compatible with the Conext XW series inverters. The PDP can be used for managing power distribution for up to three XW inverters, MPPT Charge Controllers, the battery, and a generator.

The PDP is designed for easy installation and flexibility:

- Includes a main 250 A DC breaker for the battery
- Available with or without AC breakers for AC input, Bypass, and AC Out (load)
- Breaker expansion positions on DC side for solar charge controllers and additional battery disconnects/breakers and AC side for additional inverters, generator or AC coupled PV inverter



- Provision for mounting surge arresters e.g. Square D SDSA1175, Square D SDSA3650
- Extremely flexible Arctic Ultraflex Blue[™] wiring for direct connection to the XW inverter as described in the specifications
- Split phase, single phase, and three phase applications
- · Mount on either side of the XW inverter, multiple conduit knockouts and a field reversable door
- Mounts flush beside Conext 600V MPPT Charge Controllers. Includes mounting provisions for two MPPT 60 150 Charge Controllers on the side
- · Saves installation time with factory installed, ready to connect wiring
- Includes a Conduit Box and mounting plate for seamless integration with XW inverters

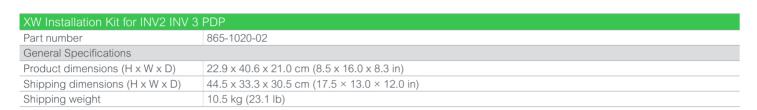
	XW PDP with AC Breakers	XW PDP without AC Breakers			
Part number	865-1015-01	865-1014-01			
Standards	UL	UL / IEC			
AC Distribution					
Included breakers	Three 60 A, 120/240 Vac, two-pole, Square D QOU260 AC breakers for AC input, bypass and AC load (factory-installed)	Breakers not included. Refer to compatible breaker accessories.			
Mounting	DIN rail (35 mm)	DIN rail (35 mm)			
Breaker expansion positions	Six expansion positions	Nine 2-pole expansions (QOU breakers)			
AC wiring	Factory installed and labeled Arctic Ultraflex Blue™ wiring, including five #6 AWG AC cables for AC connections: L1, L2, Neutral	AC wiring not included			
DC Distribution					
Included breakers	One GJ 250A 160 Vdc DC, 3/8" stud breaker installed				
Mounting	Panel mounted				
Breaker expansion positions	Two expansion positions for battery 250A DC breakers Eight expansion positions for charge controller DC breakers				
DC wiring	One pair of Arctic Ultraflex Blue™ #4/0 AWG battery cables				
General Specifications					
Wiring connections	Termination lugs for ground, AC neutral and DC bus bar for battery connection				
Enclosure	Indoor rated, field-reversible panel door. A wall mount bracket is included, as well as an XW Conduit box for wiring to the XW terminals.				
Product dimensions (H x W x D)	76.1 x 40.6 x 21.0 cm (30.0 × 16.0 × 8.3 in)				
Shipping dimensions (H x W x D)	122.0 x 53.3 x 34.3 cm (48.0 × 21.0 × 13.5 in)				
Shipping weight	30.5 kg (67.2 lb)				



The XW Connection Kit is used for connecting a second or third XW inverter to a Power Distribution Panel (PDP). One XW Connection Kit is used for each of the additional XW Inverters.

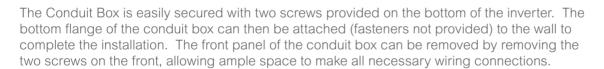
The XW Connection Kit is designed for easy installation of multiple inverter systems and includes:

- XW Conduit Box
- Includes a main 250A DC breaker for the battery
- One pair #4/0 AWG battery cables, 64" length to reach from the third inverter to the PDP
- Five #6 AWG cables for AC In (grid), AC Out (load), and neutral
- · AC Sync and Xanbus cables for network communication
- DC positive bus bar for up to 3 DC disconnect breakers for installation in the PDP



XW Conduit Box

The XW Conduit Box mounts directly to the bottom of an XW inverter to safely protect end-users from inadvertent contact with wiring or connections. The XW Conduit Box is bundled with the Power Distribution Panel and the XW Connection Kit, however, it is also available for order on its own.



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.

XW Conduit Box				
Part number	865-1025-01			
General Specifications				
Product dimensions (H x W x D)	22.9 x 40.6 x 21.0 cm (8.5 x 16.0 x 8.3 in)			
Shipping dimensions (H x W x D)	44.5 x 33.0 x 30.5 cm (17.5 × 13.0 × 12.0 in)			
Shipping weight	4.6 kg (10.0 lb)			



Compatible AC breakers for XW Power Distribution Panel

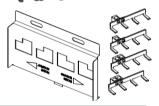
Application	Compatible Breakers				
UL Standards					
120/240 VAC	60 A, 120/240 VAC Breaker Kit (865-1215-01); or				
	Customize with Square D type QOU DIN-rail mount breakers				
120/208 VAC	60 A, Three-Phase Breaker Kit (865-1315-01); or				
	Customize with Square D type QOU DIN-rail mount breakers				
IEC Standards					
230 VAC	Schneider Electric Acti9 and Multi9 DIN-rail mount breakers				

60 A, 120/240 VAC Breaker Kit

The 60 A, 120/240 VAC Breaker Kit is used for AC distribution for a second or third XW inverter connection to the Power Distribution Panel. If the Power Distribution Panel was ordered with AC breakers, a single breaker kit can be used for connecting two or three inverters. With two inverters, the three additional breakers are used for AC in (grid), bypass, and AC Out (load). With three inverters the breakers in the PDP are used for AC in (grid) and AC Out (load), and bypass functionality would be installed externally (not included). Includes:



- Three 60A, 120/240 Vac, two-pole, Square D, type QOU, DIN-rail mountable AC breakers
- · Four Jumpers with four tabs each
- Bypass interlock plate for dual inverter systems



XW Conduit Box	
Part number	865-1215-01

60 A, Three-Phase Breaker Kit

The 60 A, Three-Phase Breaker Kit is used to connect three XW+ inverters in a 120/208V three phase configuration in the Power Distribution Panel. The three, 60A three-pole breakers are used for connecting AC In (grid), bypass, and AC Out (load). Includes:



- Power distribution jumpers
- Bypass interlock for three-phase systems using three XW inverters



Three-Phase Breaker Kit for XW PDP	
Part number	865-1315-01

DC Breaker Accessories

Compatible with XW Power Distribution Panels.

	Single Unit Part Number	Masterpack Part Number	Masterpack Qty	Application	
Battery Disconnect/Breaker					
250A, 160VDC, Panel Mount	865-DCBRK-250	005 4005	6 units	VM inverter connection to better	
DC Breaker	000-DCBRN-200	865-1065	6 units	XW inverter connection to battery	
Charge Controller Breakers					
125A, 125VDC, Panel Mount	005 DODDIV 105	<-125 -	-	MPPT 100 600 output connection to	
DC Breaker	865-DCBRK-125			battery	
100A, 125VDC, Panel Mount	865-DCBRK-100	06F 1000	12 units	MDDT 90 600 output connection to bottom	
DC Breaker	000-DCBKK-100	865-1080	12 units	MPPT 80 600 output connection to battery	
80A, 125VDC, Panel Mount	865-DCBRK-80	06F 1070	10 unito	MDDT CO 150 output connection to better	
DC Breaker	805-DCBKK-80	865-1070	12 units	MPPT 60 150 output connection to battery	
60A 160VDC Danal Maunt	865-DCBRK-60	865-1075	48 units	MPPT 60 150 input connection to PV	
60A, 160VDC, Panel Mount				array. Not used when the MPPT 60 150 is	
DC Breaker				installed with MPPT Disconnect RS	

Example XW Power Distribution Configurations

The following table shows example ordering information for some typical configurations. Other configurations are also possible such as adding additional MPPT charge controllers or integrating PV with AC Coupling. Please refer to the Mini-PDP, PDP, and other product specifications and manuals for more information.

	Part Number	1 XW 120/240V 1 MPPT	2 XW 120/240V 2 MPPT	3 XW 120/240V 3 MPPT	3 XW 3-phase 3 MPPT
XW Pro or	865-6848-21 or	1	2	3	3 ¹
XW+	865-6848-01	1	2	3	3'
MPPT 100 600 or	865-1034 or	1	2	3	3
MPPT 80 600	865-1032	1	2	3	3
Optional: MPPT Disconnect RS	865-1036 and	1	1	2	2
	865-1039	1	1	1	1
XW Mini PDP	865-1013-01 ²	1			
XW PDP with AC Breakers	865-1015-01 ²		1	1	
XW PDP without AC Breakers	865-1014-01				1
XW Connection Kit	865-1020-02		1	2	2
60A 120/240 VAC Breaker Kit	865-1215-01 ²		1	1	
60A Three Phase Breaker Kit	865-1315-01 ²				1
Chargo Controllor Output	Refer to				
Charge Controller Output Breaker	DC breaker	1	2	3	3
	accessories				
Optional: Extra AC Breakers for Generator Integration	Refer to				
	AC breaker	One 2-pole	Two 2-pole	Three 2-pole	One 3-pole
	accessories				
Manual Bypass		la alcela d	Included with	Installed externally	Included with
		Included	865-1215-01	(not included)	865-1315-01

¹ XW+ must be used for three-phase applications

² For IEC markets, substitute the PDP without AC Breakers (865-1014-01), and refer to compatible AC breaker accessories.