

# POWER PANEL SYSTEMS

## xantrex

## XW Series Inverters

### XW Hybrid Inverter/Charger

Xantrex brings the next generation of inverter/charger to market, with the **XW Hybrid Inverter/Charger**, the heart of the XW System. The XW Hybrid Inverter/Charger (XW) is a true sine wave, 120/240-volt AC, split-phase, inverter/charger that incorporates a DC to AC inverter, a battery charger, and a 60A AC auto-transfer switch. It is the foundation for battery-based residential and commercial applications up to 18 kilowatts (kW)

Capable of being grid-interactive or grid-independent, the XW can operate with generators and renewable energy sources to provide full time or backup power. Includes wall mount, backplate.

See specifications on following page.



XW Series

### XW Power Distribution Panel (XW PDP)

The XW Power Distribution Panel with conduit box is factory-wired and labeled to support a code-compliant single-inverter installation. The XW PDP can be configured to mount on either side of the inverter/charger. Internal wiring and breakers can be added to expand the XW System with up to three inverters, four charge controllers, or other equipment to support larger systems, including three-phase. A mounting plate and XW conduit box is supplied with each XW PDP.

67.2 lbs, 48"x21"x13.5" Shipping Dimensions



XW Power Distribution Panel (XW PDP)

Product Name and Description	Part Number	Price
XW Power Distribution Panel	705208	\$1500.00
XW Connection Kit	705219	\$750.00
XW Conduit Box	705220	\$175.00



XW System Control Panel

The **XW SCP** is a Xanbus™-enabled device featuring a graphical, backlit LCD screen that displays system configuration and diagnostic information for all devices connected to the network. When installed as an XW System accessory, the XW SCP eliminates the need for separate control panels for each device and gives a single point of control to set up and monitor an entire XW Power System. 5 year warranty. 6"x4"x1 9/16" (152x103x40mm) 1lb

Interfaces with:  
XW4024, XW4548, XW6048  
Inverter/Charger(s),  
XW Solar Charge Controller, XW Auto  
Generator Start **See next page for price.**

The **XW Connection Kit** is a wiring kit and conduit box used to connect additional inverters into an XW Power Distribution Panel. All wires are measured, pre-cut and labeled to facilitate easy installation. 23.1lb 17.5"x13"x12" Shipping Dimensions

Interfaces with:  
XW4024, XW4548, XW6048  
Inverter/Charger(s),  
XW Power Distribution Panel

The **XW Conduit Box** is a bare conduit box (no wires) that can be used to create systems larger than two inverters or to retrofit XW Inverters into existing systems which may already have AC/DC disconnects. 10.0 lb 17.5"x13"x12" Shipping Dimensions

Interfaces with:  
XW4024, XW4548, XW6048  
Inverter Chargers,  
XW Power Distribution Panel



XW Connection Kit

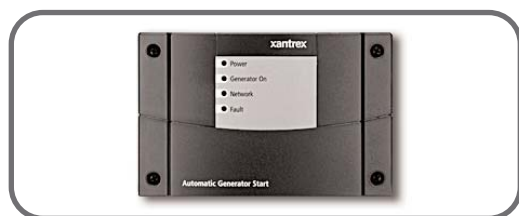


XW Conduit Box

**XW Solar Charge Controller**  
See Page 44

**xantrex****XW Series Inverters**

Model	XW6048-120/240-60	XW4548-120/240-60	XW4024-120/240-60
<b>Part Number</b>	<b>705200</b>	<b>705201</b>	<b>705202</b>
<b>Price</b>	<b>\$4500.00</b>	<b>\$3950.00</b>	<b>\$3950.00</b>
<i>Output Power (Watts)</i>	6000	4500	4000
<i>Surge rating (10 seconds)</i>	12000	9000	8000
<i>Efficiency - Low Load</i>		95%	
<i>Efficiency - CEC weighted</i>	92.5%	93%	91%
<i>CEC power rating</i>	5752 W	4500 W	4000 W
<i>DC Current at rated power</i>	130A	96A	178A
<i>Frequency / Regulation</i>	60Hz/ +/- 0.1Hz		
<i>AC Voltage</i>	120/240 VAC split-phase		
<i>Typical transfer time</i>	8 ms		
<i>Temp. Comp. Probe</i>	Included		
<i>Input Voltage Range (VDC)</i>	44 to 64		22 to 32
<i>Total Harmonic Distortion</i>	< 5%		
<i>Power Factor Corrected Charging</i>	.98		
<i>Max. Continuous Charge Rate (Amps)</i>	100	85.0	150.0
<i>Automatic Transfer Relay (Amps)</i>	60.0		
<i>Specified Temperature Range</i>	-13°F - 158°F (-25°C - 70°C)		
<i>Multiple-unit Configurations</i>	Up to three parallel units in 120/240-volt split-phase configuration		
<i>Standard Warranty</i>	5 years		
<i>Forced Air Cooling (4 speed fan)</i>	Thermally Activated		
<i>Inverter Dimensions</i>	23 x 16 x 9" (580 x 410 x 230mm)		
<i>Weight - Inverter Only (lbs.)</i>	35.0 (16 kg)		
<i>Shipping Weight (lbs.)</i>	132.0 (60kg)		122.0 (55kg)



The **XW AGS** is a Xanbus™-enabled device that can automatically activate a generator to provide an XW Series Inverter/Charger with power to recharge depleted batteries or assist with heavy loads. Compatible with popular generators, the XW AGS adds intelligence to power management and eliminates time spent monitoring batteries and inverter loads. The XW AGS can be configured to start the generator in response to low battery voltage, thermostat operation, or load size on the inverter battery. A quiet-time setting prevents the generator from starting at inconvenient times. The LCD display shows the status of the XW AGS, while all user-defined settings are programmed through the XW System Control Panel.

Interfaces with: XW Hybrid Inverter/Charger(s), XW Solar Charge Controller(s), and XW SCP

Product Name and Description	Part Number	Price
System Control Panel	705203	\$300.00
Communications Gateway	706346	\$650.00
3 ft. Network Cable	705209	\$6.00
5 ft. Network Cable	705210	\$7.50
7 ft. Network Cable	705211	\$9.00
10 ft. Network Cable	705212	\$11.00
14 ft. Network Cable	705213	\$14.00
25 ft. Network Cable	705214	\$17.00
50 ft. Network Cable	705215	\$26.00
75 ft. Network Cable	705216	\$38.00
Network Terminator male (2pk)	705217	\$9.00
Network Terminator female (2pk)	705218	\$12.00
Automatic Generator Start	705204	\$200.00

**See page 44 for the XW-MPPT60-150**



## OutBack Flexware Systems

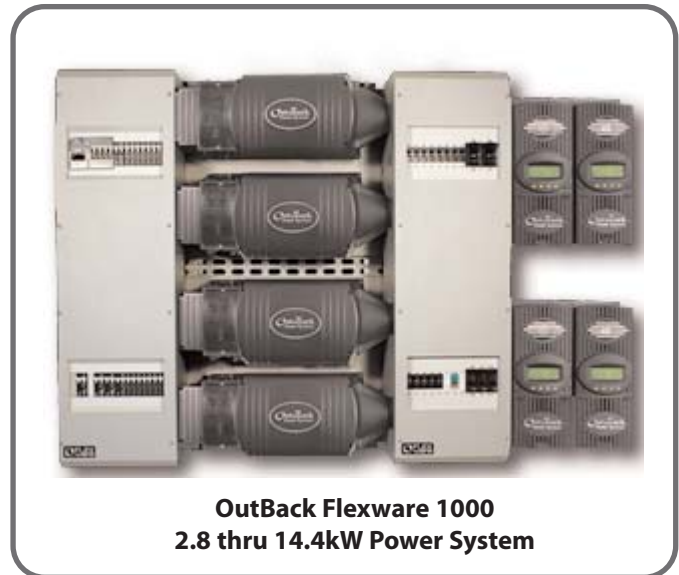
### PS Based 2.8 thru 14.4 kW Power System

The OutBack Flexware 1000 is a fully expandable system for up to four FX series inverters, up to four MX60 MPPT charge controllers, a MATE system controller and all the associated AC and DC components of a large renewable energy power conversion system. Two Flexware systems can be stacked using a HUB-10 for up to 28,880 watt of power. Choose from 120V 120/240 split phase or even 3 phase.

### PS Based 2 thru 7.2 kW Power System

The OutBack Flexware 250-500 is a compact power system for one or two FX series inverter/chargers, up to three MX60 MPPT charge controllers, a MATE system controller and all the associated AC and DC components of a renewable energy power conversion system.

CALL 1-800-544-6466 AND ASK FOR MORE INFORMATION ON HOW TO ORDER.



**OutBack Flexware 1000**  
2.8 thru 14.4kW Power System



**OutBack Flexware 250**  
(Inverter not included)



**OutBack Flexware 500**  
2 thru 7.2kW Power System



## FLEXware 1000-DC

The OutBack Flexware 1000-DC provides the DC electrical system overcurrent protection, disconnect and manual control functions for one or more inverters, multiple PV arrays and other charging sources and the storage battery system. It can also function as a load distribution panel for DC loads. The optional (page 54) OBDC-GFP ground fault protection system can be added to the FW1000-DC which disconnects the PV array(s) if a DC or AC ground fault occurs in the DC system.

### More Features

- ETL listed indoor type powder-coated aluminum enclosure with plenty of conduit knockouts - 3/4", 1" and 2"
- Mounting space for up to six large 1.5" wide 175 or 250 amp or nine medium 1.0" wide 60 to 100 amp breakers - sizes can be mixed.
- Eleven spaces for small 0.75" wide 15, 30 or 60 amp breakers and OBDC-GFP (uses 3 spaces)
- 500 amp 50mV DC current shunt standard
- Battery negative / ground bus bar standard
- Battery positive bus bar for DC loads and PV arrays included standard
- Easily connected to other inverter models and enclosures via conduit or race way
- For negative or positive ground systems
- Requires optional DCA's for connection of each FX Inverter



Product Name & Description	Part Number	Price	Dimension (in.) (H x W x D)	Shipping Weight (lbs.)
FW1000-DC	704521	\$509.00	38.5 x 11.4 x 12.1	21.0

## OutBack FLEXware System Options

Product Name and Description	Part Number	Price
<b>FW-BBUS</b> Allows connection of two 175/250A or three 100A DC breakers. 500A rated copper plate. (One included standard w/PS2DC / three w/PS4DC)	705458	\$24.00
<b>FW-SBUS</b> DC Shunt Bus allows up to 4 high current cable connections on the same side of a DC shunt, 1000 Amp rated brass and 3/8" bolts for cable ring terminals.	704315	\$29.00
<b>FW-CBUS</b> Combiner Bus connects up to eight DIN mounted breakers of four DIN mounted fuse holders. Includes one 1/0 set screw lug. Plated copper rated for 200 Amps.	704554	\$22.00
<b>TBB - Terminal Bus Bar</b> Use for adding more wire terminations or for isolating multiple positive / negative & ground circuits. TBB-White insulators (P/N 704280), TBB-Red insulators (P/N 704281), TBB-Blue (P/N 705463), TBB-Ground (P/N 704547), TBB-Black insulators (P/N 704252), TBB-Brown insulators (PN 704552)	704252 (Black)	\$19.00
<b>FW-CCB2-T - Charge Control Bracket</b> Holds two MX-60 controllers on the top of FW500/1000 enclosure.	704316	\$49.00
<b>FW-CCB - Charge Control Bracket</b> Holds one MX-60 controller on the side of FW500/1000 enclosure.	704317	\$29.00
<b>FW-CCB2 - Charge Control Bracket</b> Holds two MX-60 controllers on the side of FW500/1000 enclosure.	704318	\$49.00
<b>FW-MP - Mounting Plate</b> Use one for the FW-500 or two for the FW-1000. (14lbs)	704251	\$169.00
<b>FW-SHUNT250 - Shunt kit</b> 500A DC shunt w/attached terminal bus bar. Mounts on FX inv.	704545	\$50.00
<b>FW-SHUNT500 - Shunt kit</b> 500A DC current shunt with attached terminal bar. One FW-SHUNT500 included on FLEXware 500 and FLEXware 1000 DC enclosures.	704546	\$35.00



## FLEXware 1000-AC

### FW1000-AC

The OutBack FW1000-AC provides the AC electrical system overcurrent protection, disconnect and bypass functions for up to four inverters, a utility connection and a back-up generator connection.

#### More Features

- ETL listed indoor type powder-coated aluminum enclosure
- Dual snap-in DIN rail type mounting brackets for up to 32 AC circuit breakers
- Wireway included to run communication wires between AC and DC sides
- Two inches deeper than PS4 for increased working space when wiring
- Designed to mount directly to the AC end of up to four FX inverterchargers
- Plenty of room for additional current sensors and control relays for advanced system designs.
- Lighter color for better visibility within the enclosure and a more neutral appearance so systems blend-in after installation.
- Requires optional ACA's for connection of each FX inverter

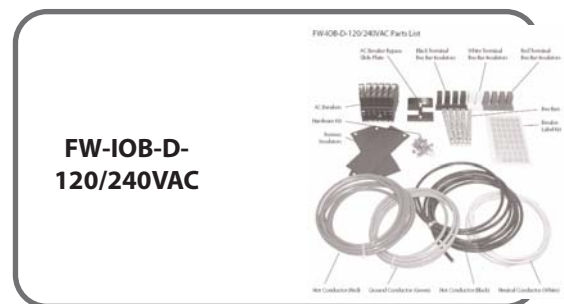


**FW1000-AC**  
Interior View

Product Name and Description	Part Number	Price	Inverter(s)	Dimension (in.) (H x W x D)	Shipping Weight (lbs.)
<b>FW1000-AC</b> Includes (2) AC breaker surrounds and DIN rails, TBB-Ground (to be used as neutral), FLEXware mounting plate alignment straps.	704522	\$509.00	Up to four FX Series	38.5 x 11.4 x 12.1	21.0

### AC Input / Output / Bypass Assemblies

For field installation in FW1000-AC version. Packed as a complete kit with detailed instructions and drawings. Includes safety interlock. Allows "bypassing" of an inverter for maintenance or repair while keeping the AC loads powered from a generator or utility grid.



**FW-IOB-D-120/240VAC**

Product Name and Description	Part Number	Price	Application	Includes
FW-IOB-S-120VAC	704523	\$105.00	120 VAC output 60 Amp 7.2kW	(3) 60A 120VAC SP DIN mount breakers
FW-IOB-S-230VAC	704524	\$105.00	230 VAC output 30 Amp 6.9kW	(3) 30A 230VAC SP DIN mount breakers
FW-IOB-D-120/240VAC	704525	\$249.00	120/240 VAC output 60 Amp 14.4kW	(6) 60A 120VAC SP DIN mount breakers
FW-IOB-D-120VAC	704526	\$219.00	120 VAC output 120 Amp 14.4kW	(6) 60A 120VAC SP DIN mount breakers
FW-IOB-D-230VAC	704527	\$199.00	230 VAC output 60 Amp 13.8kW	(6) 30A 230VAC SP DIN mount breakers
FW-IOB-Q-120/240VAC	704531	\$409.00	120/208 VAC output 60 Amp 21.6kW	(9) 60A 120VAC SP DIN mount breakers
FW-IOB-Q-230VAC	704529	\$349.00	120 VAC output 240 Amp 28.8kW	(12) 60A 120VAC SP DIN mount breakers
FW-IOB-T-120/208VAC	704528	\$309.00	120/240 VAC output 120 Amp 28.8kW	(12) 60A 120VAC SP DIN mount breakers
FW-IOB-T-230/400VAC	704530	\$309.00	230 VAC output 120 Amp 27.6kW	(12) 30A 230VAC SP DIN mount breakers



## OutBack FLEXware

OutBack Power Systems offers a new compact enclosure for all the AC and DC components of a renewable energy power conversion system. The FW250/500 saves time, money and space by combining the disconnects, overcurrent protection devices, grounding and control components into easy to install enclosures. The FW250/500 is designed to accompany one or two FX inverter/chargers.

### FW250 Features

- Indoor type powder-coated aluminum enclosure for single FX inverter
- Can be wall or shelf mounted
- Can be used for DC or AC components or both
- Knock-out provided for connection to MX60 charge controller
- Breaker spaces for battery, PV array or PV GFP breakers
- Mounting locations for AC GFCI outlet and AC breakers

### FW500 Features

- ETL listed indoor type powder-coated aluminum enclosure with plenty of conduit knockouts
- Knockouts for two 1.5" or 3 - 1" breakers and eight 3/4" breakers. (FW500-DC) and up to 16 DIN breakers on the FW500-AC
- 500 amp 50 mVDC current shunt standard
- Battery negative/ground bus bar standard
- Knockouts for battery conduit, MX 60 interconnect and stacking another FW500
- For negative or positive ground systems
- Knockouts on five surfaces to facilitate conduit and inverter connection and additional MX60s



FW250



FW500

Product Name and Description	Part Number	Price	Dimension (in.) (H x W x D)	Shipping Weight (lbs.)
<b>FW250</b> DC and/or AC breaker enclosure - Secures directly to either end of an FX series inverter. Includes ground bus bar and DC breaker handle guard. Holds up to 8-1 to 80 amp, 1-175 or 250A breaker. KO for GFCI AC outlet. (DC current shunt not included)	704518	\$99.00	7.5" x 6.5" x 8.6"	5
<b>FW500-DC</b> DC breaker enclosure - fits at the DC side of one or two FX series inverters. Includes ground bus bar, 500 amp DC shunt assembly w/negative TBB, breaker mounting screws.	704519	\$309.00	18.2" x 11.4" x 12.1"	15
<b>FW500-AC</b> AC breaker enclosure - fits at the AC side of one or two FX series inverters. Includes ground bus bar and DIN mounting bracket for up to 16 DIN type breakers (not included)	704520	\$309.00	18.2" x 11.4" x 12.1"	15



## OutBack SmartRE

### Grid-Tie Solar with Battery Backup

SmartRE is the revolutionary Smart Renewable Energy solution from OutBack Power, bringing you simplified grid-tie solar with back-up power for residential and small commercial applications. Designed with an emphasis on ease of installation, a SmartRE solution installs and operates similarly to basic grid-tie solar inverters but with the unique additional benefit of providing UPS quality battery back-up during utility outages. An integrated ultra-fast AC transfer switch guarantees that even sensitive back-up loads, like computers, never know when a utility outage occurs. Recommended AGM batteries are maintained and charged by an innovative OutBack multi-stage charging process. This valuable feature assists in providing reliable back-up power and a battery life up to 10 years.

The SmartRE is a versatile product and can be installed both indoor and outdoors. Available in power levels up to 6kW SmartRE is capable of providing as much as 60 kWh of storage during outages, there is a SmartRE solution for your application. With matching type 316 stainless steel power and electronics enclosures constructed of aluminum a SmartRE solution can be either wall or pad mounted making this the most versatile grid-tie with battery backup solution on the market. This solution is designed and manufactured by OutBack Power to ensure that a SmartRE solution works reliably for years to come.



A standard 5-year warranty provides peace of mind.

### SmartRE Features

- Easy to Install
- Grid-Interactive Battery Back-Up
- UPS Quality Battery Back-Up
- Up to 6.0kW of Solar
- Indoor and Outdoor Rated
- Wall or Pad Mountable

Product Name	SRE2500-120-NA	SRE2500-120/240-NA	SRE3000-120-NA	SRE3000-120/240-NA	SRE5000-120/240-NA	SRE6000-120/240-NA
<b>Part Number</b>	<b>707131</b>	<b>707133</b>	<b>707134</b>	<b>707135</b>	<b>707136</b>	<b>707137</b>
<i>Max. Continuous Power</i>	2500VA		3000VA		5000VA	6000VA
<i>Nominal output voltage:</i> Sell (Invert)	120- (120VAC)	120- (120/240)	120- (120VAC)	120- (120/240)	120/240 (120/240)	120/240 (120/240)
<i>Nominal Battery Voltage</i>	48 Volts DC					
<i>MPPT operating voltage range</i>	50-145 VDC					
<i>PV Array / Max. Wattage STC</i>	3125 WDC		3750 WDC		6250WDC	7500WDC
<i>Typical Efficiency - inverter/system</i>	Up to 93%					
<i>Dimension (H x W x D) in. (cm)</i>	42x19x19 (107x48x48cms)			2 Enclosures 42x19x19 (107x48x48cms)		
<i>Shipping Weight lbs. (kgs)</i>	128 (58kgs)			2 Enclosures 167 (76KGS) / 60 (27kgs)		