

POWER PANEL SYSTEMS

xantrex

PP Series Power Panel Systems

A factory engineered and professionally assembled alternative energy power system with SW or DR inverters mounted on a panel pre-wired and ready to install. Models can be configured for 120 or 240VAC power delivery up to 11kW in size, from battery banks of 12, 24, or 48 VDC with connections for generator and/or utility input, including all necessary AC and DC overcurrent protection devices required by the NEC with additional AC section.

All PP series assemblies include: one or two Xantrex inverters, a white powder-coated steel backplate, a DC disconnect assembly with 500A shunt negative bond block and one or two battery disconnect breakers, an AC input/output breaker section with inverter bypass breaker interlock. All inverters include a conduit box with connecting cables; conduits, dual inverter systems include stacking interface cable for 240 V operation, and two AC breaker sections. ETL listed. Inverter to battery cable sets for dual inverter models require two sets. E models for European export available in 230V / 50Hz. Call your Kyocera Authorized Dealer for pricing. Two year warranty.

PP Series optional factory installed equipment can be installed with order, see Power Panel Options for part numbers.

- Xantrex model **PPO-C40** installed charge controller (maximum 2) for solar electric, wind or hydroelectric battery charging sources. Note: BTS-15 remote sensor is recommended.
- Optional digital meter **PPO-C40DVM** (maximum 2)
- Additional installed DC rated circuit breaker order **PPO-CD** (15, 20, or 60) (maximum 4)
- For inverter to battery flexible conduit/cable sets order **PPO-BC(length)-(wire gauge)** (See page 92), supplied with assembly, packed separately, see options list

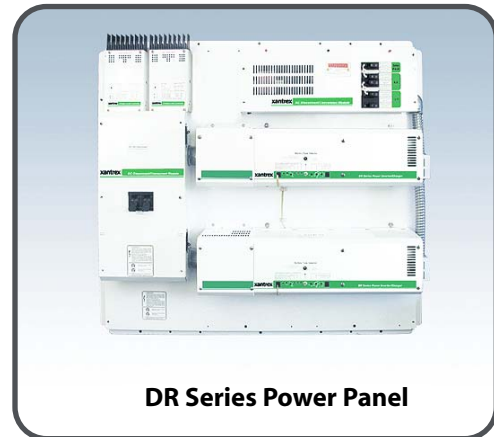
Note: Power panels are shipped in wood crates. 47.0 in x 44.0 in x 19.0 in, 22.6 cu.ft. All power panels are 43" L x 40" W.

DR Series Power Panel Systems

The DR Power Panel system comes ready for installation, pre-wired with the following:

- DR Series modified sine wave AC power inverter with high efficiency and bi-directional operation includes:
 - 30 amp AC pass-thru power at 120VAC (/S = Single System) or 120/240VAC (/D = Dual System)
 - Adjustable three stage, temperature compensated battery charging
- 175 or 250 amp DC disconnect breaker*
- 60 amp AC disconnect/bypass breaker in box*
- AC and DC wiring in conduit (battery cables not included)*
- Powder coated steel back-plate (40.0"H x 43.0"W x 1.0"D)
- Battery Temperature Sensor*
- Inverter Conduit Box*
- Negative/Ground Bonding Block
- 500 amp/50mV shunt (for remote metering)

*These items are doubled on /D (Dual = two inverters) system



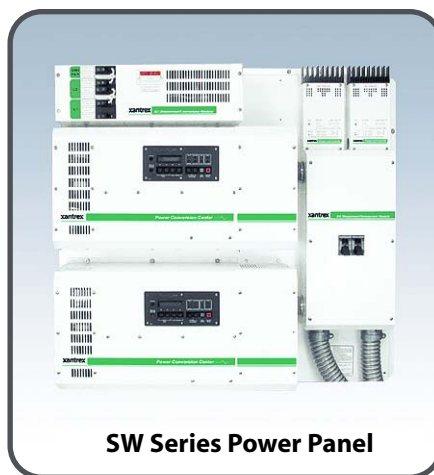
DR Series Power Panel

Product Name	PP-DR1512/S	PP-DR1512/D	PP-DR1524/S	PP-DR1524/D	PP-DR2412/S	PP-DR2412/D	PP-DR2424/S	PP-DR2424/D	PP-DR3624/S	PP-DR3624/D
Part Number	50310	50311	50313	50314	50316	50317	50318	50319	50321	50322
Price	\$1979.00	\$3637.00	\$1879.00	\$3529.00	\$2295.00	\$4337.00	\$2295.00	\$4337.00	\$2529.00	\$4795.00
<i>Inverter(s)</i>	DR1512	DR1512x2	DR1524	DR1524x2	DR2412	DR2412x2	DR2424	DR2424x2	DR3624	DR3624x2
<i>Max. Continuous Power</i>	1.5kW	3.0kW	1.5kW	3.0kW	2.4kW	4.8kW	2.4kW	4.8kW	3.6kW	7.2kW
<i>DC Input</i>	12VDC		24VDC		12VDC		24VDC		24VDC	
<i>Min. Battery Cable Size</i>	2/0AWG	2/0AWGx2	2/0AWG	2/0AWGx2	4/0AWG	4/0AWGx2	2/0AWG	2/0AWGx2	4/0AWG	4/0AWGx2
<i>VAC Output</i>	120 @60Hz	120/240 @60Hz	120 @60Hz	120/240 @60Hz	120 @60Hz	120/240 @60Hz	120@ 60Hz	120/240 @60Hz	120@ 60Hz	120/240 @60Hz
<i>Battery Charger</i>	70A	70Ax2	35A	35Ax2	120A	120Ax2	70A	70Ax2	70A	70Ax2
<i>Shipping Weight (lbs.)</i>	145.0	220.0	145.0	220.0	155.0	240.0	155.0	240.0	159.0	248.0

SW Series Power Panel Systems

Xantrex power panels are complete, pre-assembled electrical systems that are NEC compliant as well as ETL listed to UL and CSA standards. These systems may cost a little bit more than the individual components, but will save you a lot of time and hassle during system installation and inspection. The SW Power Panel system comes ready for installation, pre-wired with the following:

- SW Series sine wave AC power inverter with high efficiency and bi-directional operation includes:
 - 60 amp AC pass-thru power at 120VAC (/S = Single System) or 120/240VAC (/D = Dual System)
 - Adjustable three stage, temperature compensated battery charging
- 175 or 250 amp DC disconnect breaker*
- 60 amp AC disconnect/bypass breaker in box*
- AC and DC wiring in conduit (battery cables not included)*
- Powder coated steel back-plate (40.0"H x 43.0"W x 1.0"D) (inches)
- Battery Temperature Sensor*
- Inverter Conduit Box*
- Negative / Ground Bonding Block
- 500 amp/50mV shunt (for remote metering)



SW Series Power Panel

*These items are doubled on /D (Dual = two inverters) system

Product Name	PP-SW4024/S	PP-SW4024/D	PP-SW4048/S	PP-SW4048/D	PP-SW5548/S	PP-SW5548/D
Part Number	50333	50334	50337	50338	50340	50342
Price	\$4995.00	\$8995.00	\$4995.00	\$9137.00	\$5695.00	\$9995.00
<i>Inverter(s)</i>	SW4024	SW4024x2	SW4048	SW4048x2	SW5548	SW5548x2
<i>Max. Continuous Power</i>	4.0kW	8.0kW	4.0kW	8.0kW	5.5kW	11.0kW
<i>DC Input</i>	24VDC		48VDC			
<i>Min. Battery Cable Size</i>	4/0AWG	4/0AWGx2	2/0AWG	2/0AWGx2	4/0AWG	4/0AWGx2
<i>VAC Output</i>	120@60Hz	120/240@60Hz	120@60Hz	120/240@60Hz	120@60Hz	120/240@60Hz
<i>Battery Charger</i>	120A	120Ax2	60A	60Ax2	70A	70Ax2
<i>Shipping Weight (lbs.)</i>	215.0	360.0	215.0	360.0	246.0	422.0

PP Series Power Panels Options

Product Name and Description	Part Number	Price
PPK-C40 - A field installation kit for adding a C40 controller assembly to an existing Power Panel installation. Kit includes C40 controller with a 60A DC breaker, hook-up wiring, connections and fasteners.	50361	\$249.00
PPO-C40 - C-40 DC Charge or load controller, includes pre-wired 60A DC breaker.	50350	\$258.00
PPO-C40DVM - Digital meter with LCD display installed onto the C40 controller.	50351	\$99.00
PPO-CD15 - 15A DC load or input breaker installed in the DC disconnect.	50352	\$59.00
PPO-CD20 - 20A DC load or input breaker installed in the DC disconnect.	50353	\$59.00
PPO-CD60 - 60A DC load or input breaker installed in the DC disconnect.	50354	\$59.00



Power Modules (PM)

The Xantrex Power Module (PM), is a balance of system stackable enclosure package that allows installation of components, wiring and safety circuitry in a lockable outdoor rated cabinet while maintaining access to all breakers. Cabinets can be stacked up to four units. Each module can house separate individual component types, such as electronics, inverters, controllers and additional AC/DC breakers, or combinations of electronics or sealed batteries. Inverters and C40 controllers sold separately.

More Features

- Powder-coated aluminum shell with stainless steel mounting hardware
- Removable latching door
- Weatherproof louvers for ventilation and waterproof-lockable circuit breaker covers
- Complete with wiring between breakers and inverter. DC Battery disconnect, AC input / output / bypass breakers, DC shunts and bonding block and AC neutral and grounding blocks
- Add optional inverter (and PV charge controllers) to complete electronics.
- PMO options are factory assembled
- Single cabinet (34.0"H x 19.0"W x 19.0" D, 57.0 lbs.)
- 2 year warranty



Model	Part Number	Price	Fits Inverter (s)	Shipping Weight (lbs.)
PM-SW250/S - Single Cabinet	50250	\$1120.00	SW4024, PS2512	57.0
PM-SW175/S - Single Cabinet	50252	\$1120.00	SW4048, SW5548	57.0
PM-DR250/S - Single Cabinet	50254	\$1120.00	DR3624, DR2412	57.0
PM-DR175/S - Single Cabinet	50256	\$1120.00	DR1512, DR1524, DR2424	57.0
PM-SW250/D - Dual Cabinet	50251	\$1845.00	PS2512 / SW4024 / SW5548 x 2	114.0
PM-SW175/D - Dual Cabinet	50253	\$1845.00	SW4048 / SW5548 x 2	114.0
PM - Base Power Module without electrical components for stand-alone vented battery cabinet or other equipment.	50260	\$495.00	-	52.0
PM-Add - Adder for PM unit to double its capacity. Used as a base with other modules stacked on top.	50261	\$395.00	-	50.0
PM-Ext - Add to PM for taller batteries. Does not have a bottom and cannot be stacked on. Can house (with a PM) four (4) L-16 batteries.	50262	\$295.00	-	33.0

Power Module Options (PMO)

Product Name and Description	Part Number	Price
PMO-C40 - C40 charge/load/diversion controller installed in the Power Module. Includes 60A DC breaker, #6 AWG wiring (between breaker, C40) and all ring terminals and mounting hardware	50263	\$255.00
PMO-LOCKS - Lock kit for one front door. Includes two keys. Replaces screwdriver-slot type latches provided with the standard Power Module.	50267	\$45.00
PMO-TRAY - Fiberglass battery tray for Power Module, protects cabinet from electrolyte. Will hold up to four (4) group 27-31, six golf cart type, or four (4) L-16 type batteries.	50269	\$65.00
PMO-FEET - Feet for securing Power Module stack to ground. constructed of (3) 0.1875" x 1.5" x 1.5" aluminum angle. Does not include anchor bolts.	50270	\$100.00
PMO-DC250 - Additional 250A DC Heineman™ breaker and #4/0 AWG cabling to inverter to allow addition of a second DR series inverter into a single Power Module.	50272	\$320.00
PMO-DC175 - Same as PMO-DC250, except 175A DC Heineman™ breaker and #2/0AWG cabling.	50273	\$320.00



OutBack PSAC / PSDC

Power System AC (PSAC)

The OutBack PSAC 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 steel enclosure
- Dual snap-in DIN rail type mounting brackets for up to sixteen AC circuit breakers (15, 20, 25, 30 or 60 amps)
- Available with or without a 30 or 60 amp 120 VAC or 120/240 VAC input/output/bypass disconnect breakers with interlock safety switch.
- Ground terminal bus bar
- Isolated neutral terminal bus bar
- Hot terminal bus bar for connecting additional AC load circuits
- Designed to mount directly to the AC end of up to four FX2000 inverter/chargers or one or two SW or DR series inverters
- Plenty of room for additional current sensors and control relays for advanced system designs.



PSAC
Interior View

Product Name and Description	Part Number	Price	Inverter(s)	AC Breaker	Dimension (in.) (H x W x D)	Shipping Weight (lbs.)
PSAC-60D	55299	\$445.00	Dual FX2000, SW Series	60amp@120/240VAC	36 x 12.75 x 13.75	32.0
PSAC-60	55271	\$369.00	FX2000, SW Series	60amp@120VAC	36 x 12.75 x 13.75	32.0
PSAC-30D	55272	\$445.00	Vanner RE	30amp@120/240VAC	36 x 12.75 x 13.75	32.0
PSAC-30	55274	\$369.00	Small Inverters (DR Series)	30amp@120VAC	36 x 12.75 x 13.75	32.0

AC Input / Output / Bypass Assemblies

For additional inverter / chargers. 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.

AC-IOB-60



Product Name and Description	Part Number	Price	Inverter(s)	AC Breaker	Space Required
AC-IOB-60D	55321	\$159.00	2 Series Stacked Inverters	60amp@120/240VAC	Six breaker spaces
AC-IOB-60	55273	\$85.00	One FX2000, SW, or PS	60amp@120VAC	Three breaker spaces
AC-IOB-30D	55275	\$159.00	Vanner RE	30amp@120/240VAC	Six breaker spaces
AC-IOB-30	55276	\$85.00	Small Inverters (DR Series)	30amp@120VAC	Three breaker spaces

Power System DC (PSDC)

The OutBack PSDC 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 65) OBDC-GFP/2 ground fault protection system can be added to the PSDC 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 steel enclosure with plenty of conduit knockouts - 3/4", 1" and 2"
- Mounting space for up to four large 1.5" wide 175 or 250 amp or six medium 1.0" wide 60 to 100 amp breakers - sizes can be mixed.
- Ten spaces for small 0.75" wide 15, 30 or 60 amp breakers and OBDC-GFP/2 (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
- Designed to mount directly to the DC end of 1 or 2 Xantrex DR or SW series inverters without needing additional conduit boxes or fittings
- Easily connected to other inverter models and enclosures via conduit or race way
- Knockouts on top for up to three OutBack MX60, two RVPP Solar Boost or three C-series controllers
- For negative or positive ground systems



PSDC Interior View

Product Name and Description	Part Number	Price	DC Breaker	Dimension (in.) (H x W x D)	Shipping Weight (lbs.)
PSDC-100	55306	\$459.00	125 amp	36 x 19 x 12	38.0
PSDC-175	55254	\$519.00	175 amp	36 x 19 x 12	38.0
PSDC-250	55253	\$519.00	250 amp	36 x 19 x 12	38.0
PSDC175 Breaker Box	55324	\$385.00	N/A	N/A	24.0

OutBack Power System Options

Product Name and Description	Part Number	Price
BIG BUS	55328	\$75.00
TBB - Terminal Bus Bar Use for adding more wire terminations or for isolating multiple positive / negative circuits. TBB-W= White insulators (P/N 55316), TBB-R= Red insulators (P/N 55320), TBB-B=Blue (P/N 55373)	55259 (Black)	\$19.00
PSA Adapts the side opening of a PSAC or PSDC to match one PS series inverter / charger. Two adapter plates are required for each PS inverter when using both PSDC and PSAC.	55257	\$19.00
CCB - Charge Control Bracket For up to three additional C-Series controllers on either side.	55258	\$39.00
GBB - Ground Bus Bar Kit For isolating the negative from ground (included with GFP/2).	55260	\$15.00
PSMP - Mounting Plate For assembling a complete power system.	55255	\$179.00
PS2MP - Mounting Plate	55325	\$129.00
Turbo Kits	55363	\$149.00
Shunt Assembly Kit - Shunt & Ground Bar	55381	\$49.00



OutBack Power Panel System

Did you know that Kyocera is an OutBack integrating partner? Now custom ETL listed power systems for solar, wind, hydro and utility back-up applications are available from Kyocera Solar.

Features

- **Easy electrical inspections:** your entire power conditioning system has an ETL listed sticker right on the front.
- **Pre-Packaged:** Your system arrives at the job site as a pre-tested package. No surprises or delays because a part was forgotten back at the shop or one component is dead on arrival.
- **Total flexibility:** You and your Kyocera representative design each system to fit your exact job requirements. You pick the model and number of charge controllers, the number and size of inverters (stack up to eight for 28,000 watts), number of AC and DC breakers, GFCI's. Meters and transformers to be included in your ETL listed package.
- **Quick delivery:** In most cases, your custom ETL listed, power system, is on the road in 5 business days or less.
- **Options that you never had before:** Do you need to run a three-phase motor? No Problem. Do you need five charge controllers attached to the unit? No Problem. How about a 240 volt autotransformer built right in? No Problem. Do you need a built-in AC sub-panel? No Problem. And the list of options goes on and on.
- **Grid-Tie Capability:** Applicable for both on-grid and off-grid installations.

PS Based 2.8 thru 14.4 kW Power System

The OutBack PS 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 PS 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 4 or 5 kW Power System

The new OutBack PS2 is a compact power system for one or two FX series inverter/chargers, up to three MX60 MPPT charge controllers, a MAT system controller and all the associated AC and DC components of a renewable energy power conversion system.



**OutBack Power Panel
2.8 thru 14.4kW Power System**



**OutBack Power Panel
4 or 5kW Power System**

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



OutBack PS2

OutBack Power Systems offers a new compact enclosure for all the AC and DC components of a renewable energy power conversion system. The PS2 saves time, money and space by combining the disconnects, overcurrent protection devices, grounding and control components into easy to install enclosures. The PS2 is designed to accompany one or two FX inverterchargers.

PS2AC Features

- ETL listed indoor type powder-coated steel enclosure
- Dual 50 amp input/output bypass assembly
- Dual 50 amp breaker for inverter AC input
- One 20 amp AC breaker
- One 15 amp AC outlet (mounts on side of cabinet) with one 15 amp breaker
- One white insulated AC neutral terminal bus bar
- Two black insulated bus bars for HOT AC IN and OUT Leg 1
- Two red insulated bus bars for HOT AC IN and OUT Leg 2
- Knockouts for 8 additional OutBack AC load breakers
- Provisions for mounting an X-240 and 120mm boxer fan
- Knockouts on five surfaces to facilitate conduit and inverter connections

PS2DC Features

- ETL listed indoor type powder-coated steel enclosure with plenty of conduit knockouts
- One battery circuit breaker: 100 amp, 175 amp, or 250 amp
- Knockouts for one additional inverter battery breaker and eight 3/4" breakers
- 500 amp 50 mVDC current shunt standard
- Battery negative/ground bus bar standard
- Battery positive/bus bar for DC loads and PV arrays included standard
- Knockouts for battery conduit, MX 60 interconnect and stacking another PS2DC
- Mounting for a 120mm sq x 32mm thick 12V DC boxer fan (powered by PS2DC inverter/charger)
- For negative or positive ground systems
- Knockouts on five surfaces to facilitate conduit and inverter connection and additional MX60s
- Grommets included for MX60 and MATE wiring



PS2AC



PS2DC

Product Name and Description	Part Number	Price	DC Breaker	Dimension (in.) (H x W x D)	Shipping Weight (lbs.)
PS2AC-50D	55326	\$385.00	N/A	18.5" x 11.5" x 9.0"	26
PS2AC-50DE	55377	\$449.00	N/A	18.5" x 11.5" x 9.0"	26
PS2DC	55376	\$266.00	N/A	18.5" x 11.5" x 9.0"	23
PS2DC-100	55331	\$325.00	100 amp	18.5" x 11.5" x 9.0"	24
PS2DC-175	55324	\$385.00	175 amp	18.5" x 11.5" x 9.0"	24
PS2DC-250	55332	\$385.00	250 amp	18.5" x 11.5" x 9.0"	24

xantrex**Portable Household Inverter****XPower Powerpack Series**

Powered by a rechargeable battery, XPower Powerpack 150 provides up to 150 watts of AC power. It can jump start 4-cylinder and most 6-cylinder engines and can operate a wide range of DC products. Ideal for power emergencies, XPower Powerpack 150 comes with a built-in emergency light and jumper cables.

Xantrex Technology Inc. is offering a new product that is ideal for emergencies and for running electronics and appliances away from utility power. The rechargeable XPower Powerpack 400 Plus delivers 400 watts of portable AC power and can run many household appliances, making it the ultimate product for power outages or outdoor activities like camping and fishing.

XPower Portable Powerpacks are battery integrated systems that provide silent, portable household power. They integrate a battery and inverter to provide portable electricity and backup power anytime, anywhere. XPower Powerpacks are also ideal for power emergencies.

XPower Powerpack 1500 produces household electricity for products rated at 1500 watts or less. A clean and quiet alternative to a generator, XPower Powerpack 1500 integrates a 60 amp-hour AGM battery with a 1500-watt inverter and produces a 3000-watt surge. This system is built to run a range of appliances such as a standard size refrigerator and microwave oven, and office equipment such as a computer, monitor and fax machine.

**XPower 1500**

Product Name	XPower 150	XPower 300	XPower 300 Plus
Part Number	35923	35900	35924
Price	\$79.99	\$149.95	\$129.95
<i>Max. Continuous Power</i>	120 W	300 W	250 W
<i>DC Input Voltage</i>	12 VDC	12 VDC	12 VDC
<i>AC Output Frequency</i>	60Hz +/-4Hz		
<i>Output Voltage / Waveform</i>	115 VAC / Modified Sine wave		
<i>Dimension (H x W x D) (in.)</i>	8.7 x 6.1 x 12.4	12.6 x 9.4 x 5.7	11.8 x 7.2 x 12.5
<i>Shipping Weight (lbs.)</i>	11.7	18.5	20.0

**XPower 150****X Power 400 Plus**

Product Name	XPower 400 Plus	XPower 600	XPower 1500
Part Number	35906	35901	35902
Price	\$149.99	\$279.95	\$379.95
<i>Max. Continuous Power</i>	320 W	600 W	1350 W
<i>DC Input Voltage</i>	12 VDC	12 VDC	12 VDC
<i>AC Output Frequency</i>	60Hz +/-4Hz		
<i>Output Voltage / Waveform</i>	115 VAC / Modified Sine wave		
<i>Dimension (H x W x D) (in.)</i>	9.5 x 8.1 x 15.8	14.5 x 12.3 x 15.6	14.5 x 12.3 x 15.6
<i>Shipping Weight (lbs.)</i>	20.0	48.0	60.0

**X Power 300 Plus**