
Inverter Information

Inverters change Direct Current (DC) to Alternating Current (AC). Stand-Alone inverters can be used to convert DC from a battery to AC to run electronic equipment, motors, appliances, etc. Synchronous Inverters can be used to convert the DC output of photovoltaic (PV) modules, a wind generator or a fuel cell to AC power to be sold to the utility grid. Multifunction inverters perform both functions.

Output Voltage

All of our inverters supply standard 120 volt 60 cycle (HZ) AC power, such as one gets from the utility companies and fuel powered generators. Most of them can be special ordered with other output voltages and frequencies for use anywhere in the world. Please contact us with any special requirements that you may have.

Interference

The electronic circuitry in inverters may, in some cases, cause problems with radio and television reception, noise on telephones and buzz in audio equipment. Sinewave inverters cause the least amount of interference. Interference can be minimized by locating the inverter very close to the batteries, twisting together the cables that connect the inverter to the battery bank and locating the inverter away from appliances that are susceptible to interference. All inverters cause some interference on AM radio, especially on the lower frequencies.

What Size Inverter Do You Need?

It may be a good idea to buy a larger inverter than you think you need. The efficiency of any inverter decreases as more electrical loads are operating at the same time. Also addition of larger loads in the future should not require upgrading to a larger model at that time. If you plan to run AC motors, the extra surge capacity of a larger inverter will be helpful. For example: Running a 1/2 horsepower motor in a washer requires at least 2400 watts of surge to start.

Sinewave Inverters

Sinewave inverters have higher costs, but they can power almost anything that can be operated on utility power. Xantrex Sinewave inverters are available in sizes from 500 watts to 5500 watts, and a pair of them can synchronize to deliver up to 11,000 watts at 120/240 VAC. These are an excellent choice for a "whole house" inverter. The smaller units are an excellent choice for power systems operating audio equipment and other electronics that are waveform-sensitive.

Multifunction Inverters

Xantrex Technology Inc. and Outback Power Systems Inc. produce true sinewave inverters which can operate as Stand-Alone inverters and as Synchronous inverters at the same time! In a typical installation, the inverter is connected to a battery bank, the utility power lines, a stand-by generator and the house load center. When the batteries are fully charged, the inverter supplies AC power to the house from the battery bank. If the batteries become discharged, the inverter supplies the house loads from the utility lines, while charging the battery bank at the same time. If the batteries become fully charged by another power source, such as PV modules or a wind generator or a hydroelectric turbine, excess power may be sold back to the power company. If utility power fails, the inverter can still operate, supplying critical loads. If a stand-by generator is started, it can also supply power to the house loads. The inverter will synchronize to the generator and allow loads to be powered that are too large for either the generator or inverter to supply alone.

Stand Alone Inverters

Stand-Alone inverters convert DC power stored in batteries to AC power that can be used as required. Selecting the inverter for your power system is based on the maximum load you will be powering, the maximum surge required, output voltage required, input battery voltage and optional features needed. High quality stand-alone inverters are available in sizes from 100 watts, for powering notebook computers and fax machines from your car, to 11,000 watts, for powering an entire house or small commercial operation. The size of an inverter is measured by its maximum continuous output in watts. This rating must be larger than the total wattage of the AC loads you plan to run at one time. Wattage of most AC loads can be determined from a tag or label on the appliance, usually located near where the power cord enters, or from the owner's manual. If the inverter is expected to run induction motors, like the ones found in automatic washers, dryers, dishwashers and large power tools, it must be designed to surge, or deliver power many times its rating for short periods of time while these motors start and reach their operating speed.

Stand-alone inverters are available with three basic power output waveforms: square wave, modified square wave (sometimes called modified sinewave) and pure sinewave. Synchronous Inverters, Utility companies and generator sets deliver a pure sinewave.

Square wave inverters have the lowest cost and efficiency and not sold from this catalogue. The price of the better quality inverters is low enough to make square wave inverters an unattractive choice.

Xantrex Sinewave Multifunction Inverters

Xantrex XW Hybrid Inverter/Charger

The NEXT generation inverter/charger for renewable energy systems and backup power applications

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 an 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.

Description

Designed with consultation and input from industry experts, dealers, and installers, the XW sets a new standard for battery-based inverter/chargers. Integrating the best features available in the market, innovative new features by Xantrex and balance-of-systems components, the XW Hybrid Inverter/Charger's design makes installation quicker and easier. The XW offers high efficiency and unprecedented surge capacity to maximize the owner's return on investment. No other inverter/charger looks or performs like the XW.

Features

- True sine wave output
- 120/240 volt AC split-phase operation
- Dual AC inputs
- Capability to work with two-wire and three-wire generator starting systems
- Integrated design to minimize external balance-of-system components
- XanBus™-enabled network communication
- Certified to UL1741 and CSA for utility-interactive applications
- Unprecedented surge capacity
- Efficient, power factor corrected, high-current, multistage battery charging



XW Inverter Models, Specifications and Pricing

XW Model	Description	Item code	Price
XW4024	4.0 kW 24 Vdc 120/240 vac 60 Hz output with 150 amp charger	30-200	\$ 3,579
XW4548	4.5 kW 48 Vdc 120/240 vac 60 Hz output with 85 amp charger	30-201	\$ 3,819
XW6048	6.0 kW 48 Vdc 120/240 vac 60 Hz output with 100 amp charger	30-202	\$ 4,489

XW Accessories

XW Power Distribution Panel (Factory-wired, labelled to support a code compliant single inverter installation)	30-210	\$ 1,579
XW Connection Kit (to connect additional inverters)	30-211	\$ 894
XW System Control Panel (Display and single point of control to set up and monitor for an entire XW Power System)	30-212	\$ 319
XW Automatic Generator Start	30-213	\$ 210

Outback Multifunction Inverters

OutBack Power Systems

OutBack inverter/chargers are the next generation in advanced power management. Each is a DC to AC sinewave inverter, battery charger and AC transfer switch housed within a tough die-cast aluminum chassis.

Just like the local utility grid, the inverter produces true sinewave AC electricity for your stand-alone or backup power needs. Computers, TVs and pumps are just some of the examples of modern electronics that last longer and run better when powered with true sinewave electricity from an OutBack inverter. Starting up your air conditioning, washing machine or well pump is worry-free because of our high surge power capability. Batteries and generators are the costly consumables when using inverters to generate electricity. The integrated smart battery charger uses multiple stages to perform quick recharging while prolonging battery life, saving your batteries and generator from unnecessary wear. Automatic switching between AC power sources is seamless due to an AC transfer switch that reacts in less than 16 milliseconds.

Unique networked communication is built into all OutBack products providing complete integration. Expanding your system with your growing power needs is as simple as adding additional inverters with modular architecture. Further flexibility is provided with the ability to be connected at any time in either parallel, series or three-phase power configurations. Industry leading OutBack reliability is achieved through simplified design and rugged construction.

OutBack FX & VFX Inverters

These inverters are the cornerstones of OutBack's durable, dependable power systems packed with features that add up to outstanding performance and value.

- Multifunction: off-grid or utility intertie
- Sealed die cast aluminum chassis makes these rugged & durable performers
- Efficient and miserly: with 90% efficiency and 18-23 W standby consumption
- True Sine Wave
- Built in 3 stage battery charger
- 60 Amp AC Transfer Switch is standard
- Outstanding programmability
- Expandable to 240VAC or 3 phase applications at anytime
- Designed to operate as a co-ordinated system
- FX Series now comes with Turbo Kit Cooling Fan as standard equipment
- Shipping Weight: 62lbs



30-803	OutBack FX2012	\$ 2,539
30-804	OutBack FX2524	\$ 2,539
30-805	OutBack FX3048	\$ 2,539
30-806	OutBack VFX2812	\$ 2,749
30-807	OutBack VFX3524	\$ 2,749
30-809	OutBack VFX3648	\$ 2,749
30-841	OutBack GTFX2524	\$ 2,539
30-842	Outback GTFX3048	\$ 2,539
30-843	OutBack GVFX3524	\$ 2,749
30-844	OutBack GVFX3648	\$ 2,749

Inverter/Charger Model No.	FX2012	FX2524	FX3048	VFX2812	VFX3524	VFX3648
Continuous Power Rating	2000W	2500W	3000W	2800W	3500W	3600W
Nominal DC Input Voltage	12	24	48	12	24	48
Nominal AC Input Voltage/Freq	120VAC/60Hz					
Single Power Peak(1mSec)AC	56amps	70amps	70amps	56amps	70amps	70amps
Recommended DC Breaker	OBDC-250	OBDC-175	OBDC-175	OBDC-250	OBDC-175	OBDC-175
Continuous Battery Charger amps DC	80	55	35	125	85	45

OutBack MATE Remote Monitors and Hubs

The OutBack MATE is a complete system controller and display for both the OutBack inverter/charger and MX60 MPPT PV charge controller. It provides a display of the operation as well as allows control and adjustment of the setpoints. The OutBack MATE also coordinates the operation of the entire system to maximize performance and to prevent multiple products from conflicting. A single OutBack MATE is able to connect to multiple inverter/chargers, MX60 MPPT PV charge controllers and any other OutBack power conversion and control products offered in the future. A maximum of ten OutBack products will be able to be connected to a single MATE and the OutBack HUB communication manager. The MATE 2 has a flush-mount black face for panel or in-wall mounting.



30-821	MATE	\$ 329
30-822	MATE 2	\$ 329
30-825	HUB-4	\$ 214
30-826	HUB-10	\$ 399
30-829	RTS (remote temp. sensor)	\$ 39

Magnum Energy MS/MS-AE Inverters

MS Series

The MS Series inverter/charger is a pure sine wave inverter designed specifically for the most demanding mobile and off-grid applications. The MS Series is powerful, easy to use, and cost-effective.

MS Series inverter/chargers are available in 12-, 24- and 48-volt versions. The MS4024-AE and the MS4448-AE have 120/240VAC output, eliminating the need to stack two units or buy a transformer to run 240-volt loads.

Install the MS Series in four easy steps: simply connect the inverter's output to your distribution circuits or electrical panel, connect AC power from the utility or generator to the inverter's easy-to-reach terminal block, connect the batteries, and switch on the power. Mount the MS Series on a shelf, bulkhead, or even upside down.

The lightweight aluminum base and cover provide noise reduction and corrosion resistance. The MS Series has an RS485 communication port for network expansion and a remote control port. The extra-large AC-access cover with terminal screw block and 360 degree DC connection terminals with cover make the inverter wiring accessible when it needs to be. The MS Series front panel has an on/off switch with an easy-to-read LED indicator. All models have a 50-amp transfer relay.

The MS Series come with a 3-year warranty, except MS4024-AE and MS4448-AE which come with a 2-year warranty.



MS Series Inverter Models, Specifications and Pricing

Model	Description	Item code	Price
MS2012	2.0 kW 12 Vdc 120 vac 60 Hz output with 100 amp charger	30-401	\$ 1,299
MS2812	2.8 kW 12 Vdc 120 vac 60 Hz output with 125 amp charger	30-402	\$ 2,129
MS4024	4.0 kW 24 Vdc 120 vac 60 Hz output with 105 amp charger	30-403	\$ 2,399
MS4024AE	4.0 kW 24 Vdc 120/240vac 60Hz output w/105amp charger	30-404	\$ 2,499
MS4448AE	4.4 kW 48 Vdc 120/240vac 60Hz output w/60 amp charger	30-405	\$ 2,499

MS Series Accessories

ME-RC50	Remote for all Magnum inverters w/50' cable	30-410	\$ 219
ME-AGS	Automatic generator start for use with Magnum inverters	30-411	\$ 309
ME-SSI	Series stacking interface (fits 2 MS4024 only)	30-412	\$ 85
ME-BMK	Battery monitor kit - ME-RC50 required with this item	30-413	\$ 179

Morningstar

SureSine 300W Inverter

The SureSine inverter, a pure sine wave inverter was designed specifically to meet the needs of rural PV electrification requiring AC power including solar home systems, schools, community centers and health clinics. This inverter is also a good choice for small PV systems for telecom, remote cabins and weekend homes, and RV/caravans and boats.

Features:

- Outstanding Surge Capability - Handles a 200% surge during load start-up, to a maximum of 600 watts.
- High Efficiency - A high peak efficiency will reduce heating and make more solar energy available for powering loads.
- Low Self-Consumption - The SureSine consumes 450mA while powering loads. During no load conditions, solar energy is not wasted because the SureSine automatically powers down to stand-by mode, reducing self-consumption to one tenth of operating consumption. Self-consumption: No load = 450mA, Off = 25mA, Standby = 55mA.
- Extensive Electronic Protections - The SureSine has extensive electronic protections that will automatically protect against faults and user mistakes such as short circuit, overload, high temperature and low voltage disconnect.
- No Internal Cooling Fan - A key design objective since fans often fail in harsh environments and are noisy, consume power and blow dirt into the electronics.
- Tropicalization The SureSine uses epoxy encapsulation, conformal coating, stainless steel hardware, and an IP20 cast anodized aluminum enclosure to protect against harsh tropical and marine environments.
- Operating temperature range: -40°C to +45°C



SI-300-115V	Morningstar SureSine inverter	30-601	\$ 349
RM-1	Remote meter w/30' cord	30-611	\$ 114

Xantrex Prosine Stand Alone Inverters

The Xantrex Prosine 2.0 or 2000 watt true sine wave inverter/charger. It has a 100 amp multistage battery charging capability and is ideal for upgrading your electrical system in a boat, RV or utility vehicle and for incorporating an energy system in a remote home.

The Xantrex Prosine 1000 and 1800 watt true sine wave stand alone inverters do not have a built in battery charger, and are ideal for systems that already have a quality multistage battery charger. It is designed for recreational and industrial applications but has been successfully incorporated into residential systems.

Prosine 2000 Product Features:



- True sine wave output
- 100 amp multistage battery charger @ 12VDC
- built in 30 A transfer switch automatically transfers between inverter power and incoming AC power
- Series stackability
- LCD remote control panel and temperature sensor included



Prosine 1000 and 1800 Product Features

- True sine wave output
- Removable LCD display can be mounted remotely for control and monitoring
- Powersave mode draws only 1.5 watts under no load
- For systems already with 3 stage battery chargers.

Xantrex Model	Description	Item code	Price/12V	24V
Prosine 1000	1000 Watt Inverter	30-390	\$ 1,089	\$ 1,229
Prosine 1800	1800 Watt Inverter	30-391	\$ 1,629	\$ 1,799
Prosine 2.0	2000 Watt Inverter	30-392	\$ 1,989	N/A
Prosine 3.0	3000 Watt Inverter	30-393	\$ 3,499	\$ 3,499

Modified Sinewave Inverters

Modified sinewave inverters have modified square wave output with harmonic distortion of around 40%. They are an economical choice in power systems where waveform is not critical. Their high surge capacity allows them to start large motors while their high efficiency makes them economical with power when running small loads like a stereo or a small light. They can power most lighting, televisions, appliances and computers very well. We do not recommend them for computer systems with laser printers. Unfortunately, this type of inverter may destroy some low cost rechargeable tools, flashlights, and stereos and their waveform will not allow many laser printers, photocopiers, light dimmers and audio equipment to operate. Some audio equipment will have a background buzz that may be annoying to music connoisseurs.

TR Series Inverters

The TR series inverters have plenty of power to run microwave ovens, refrigerators, vacuum cleaners and power tools. The TR Series inverters have powerful built in battery chargers to quickly charge batteries and hold them in float voltage condition. With parallel charging and inverting functions large gensets serving with a TR Inverter can simultaneously and continuously operate AC loads and charge batteries each at the fully rated capacity of the model. The TR inverters are made for 12 volt battery systems in 1500 and 2400 watt versions. For 24 volt systems they are available in 1500, 2400 and 3600 watt versions.

The output is 120 volt AC, but with the optional stacking cable, two units can be connected for up to 7200 watts of 120/240 volt AC power, allowing the pair to operate large 240 volt appliances like deep-well pumps, as well as typical 120 volt appliances. Dimensions are 20" x 8.5" x 8". ETL listed to cUL standards.

Xantrex Model	AC Volts Hz	Battery Volts	Continuous Watts	Surge Amps	Charge Amps	Catalog Number	Price
TR1512	120 Volts	12	1500	3300	0-70	30-115	\$1039
TR2412	60 Hz	12	2400	6200	0-120	30-113	\$1229
TR1524		24	1500	4800	0-35	30-117	\$1039
TR2424		24	2400	8500	0-70	30-120	\$1229
TR3624		24	3600	12000	0-70	30-121	\$1529
TRCB	Conduit Box for all TR's					30-109	\$ 269
TR-Rem	Remote On/Off with LED indicator					30-110	\$ 164



Power Centers



Power Centers provide a code compliant way to install your inverter. Beside the inverter they include: one or AC and DC separate enclosure, AC input/output bypass breaker, heavy duty main DC battery breaker, mounting brackets resp.back plate, space for additional AC and DC input/output breakers and mounting brackets for solar charge controllers.

Powercenters are available factory assembled and tested, ready to mount on the wall and hook up to battery and AC load center - or they can be ordered in pieces to be assembled by you.

Complete kits to assemble on site are UPS shippable, where as factory-assembled units require truck freight.

For applications with medium power requirements such as homes or light commercial power systems, the FLEXware 500 supports up to two OutBack inverter/chargers and two FM60 or FM80 controllers. Standard FW500 power center assemblies include all of the protective over current devices, two AC bypass breakers, two AC input breakers, two AC output breakers, AC I/O bus bars, and DC main breaker(s). Also included are a 500A DC negative shunt, negative bus bar, ground bus bar, positive/negative DC bus bar, DC main breaker bus bar, and a remote battery temperature sensor. Dual inverter assemblies include a HUB4 communications manager.

The FW500-AC section functions as a 120/240V AC load breaker sub-panel with space for adding eight OB-AC DIN mount breakers. The FW500-DC section allows DC load circuit breakers by the addition of eight OB-DC panel mount breakers. Space limited when used with FM60 charge controllers and/or PV-GFP. Size: 20.3 H x 46.3 W. Unit weight: 177 lbs.



MidNite Solar E-Panel

Compact E-Panel is for mounting a single inverter in a code compliant installation. Can be stacked horizontally or vertically. Standard configuration is left-hand hinge & breaker placement, right-hand also available. Includes a prewired 50 amp AC-bypass switch and 50 amp AC input disconnect, pre-wired 125, 175 or 250 amp inverter battery breaker with cables, 500A/50mv shunt and DC cable covers. Battery plus plate included for attaching DC circuits. DIN rails are installed for up to 6 additional MNEAC and MNEPV AC and DC breakers. Also included: charge controller and wall mounting brackets, battery cable cover, inverter mounting hardware, grommets, bushings & installation instructions. 277 Vac breakers are suitable for 120 Vac 60Hz or 230 Vac 50Hz. ETL listed for US and Canada.

Power Centers

OutBack

FLEXware Complete Power Systems

For applications with medium power requirements such as homes, light commercial or larger back-up power systems. The FLEXware 500 system architecture can support up to two OutBack FX Series Inverter/Chargers, up to two OutBack charge controllers and all the associated AC and DC components. Thanks to a very compact design, FLEXware 500 AC and DC enclosures mount with a FLEXware MP in either a horizontal or vertical orientation to allow installation in more space-limited locations for a fast and professional looking wall-mounted installation. The FLEXware 500 accommodates all of the essential protective devices in two enclosures. Solar charge controller extra.



FLEXware 500



FLEXware 1000

FlexWare model	Inverter	Rated power		Battery charger	Assembled&tested		Parts only	
		AC output	DC Volt.		Item #	Price	Item #	Price
OBFW5-FX2012T/D	2 – FX2012T	4.0kW	120/240V 12 VDC	160 AMP	33-323	\$9,195	31-017	\$8,045
OBFW5-VFX2812/D	2 – VFX2812	5.6kW	120/240V 12 VDC	250 AMP	33-327	\$9,695	31-021	\$8,495
OBFW5-FX2524T/D	2 – FX2524T	5.0kW	120/240V 24 VDC	110 AMP	33-331	\$9,195	31-025	\$8,245
OBFW5-VFX3524/D	2 – VFX3524	7.0kW	120/240V 24 VDC	170 AMP	33-335	\$9,695	31-029	\$8,745
OBFW5-FX3048T/D	2 – FX3048T	6.0kW	120/240V 48 VDC	70 AMP	33-339	\$9,195	31-033	\$8,245
OBFW5-VFX3648/D	2 – VFX3648	7.2kW	120/240V 48 VDC	90 AMP	33-343	\$9,695	31-037	\$8,745
OBFW10-FX2524T/Q	4 – FX2524T	10.0kW	120/240V 24 VDC	220 AMP	33-367	\$16,790	31-041	\$14,890
OBFW10-VFX3524/Q	4 – VFX3524	14.0kW	120/240V 24 VDC	340 AMP	33-371	\$17,740	31-045	\$15,740
OBFW10-FX3048T/Q	4 – FX3048T	12.0kW	120/240V 48 VDC	140 AMP	33-375	\$17,690	31-049	\$15,790
OBFW10-VFX3648/Q	4 – VFX3648	14.4kW	120/240V 48 VDC	180 AMP	33-379	\$18,690	31-053	\$16,790

Xantrex

XW Complete Power Systems

Including XW MPPT-60, Control Panel and Autogenstart

Inverter model		Item #	Price
XW 4024	4.0kw 120/240VAC 24VDC	33-401	\$ 6,175
XW 4548	4.5kw 120/240VAC 48VDC	33-402	\$ 6,385
XW 6048	6.0kw 120/240VAC 48VDC	33-403	\$ 7,295



Power Centers

MidNite Solar E-Panel

Compact E-Panel is for mounting a single inverter in a code compliant installation. Can be stacked horizontally or vertically. Standard configuration is left-hand hinge & breaker placement, right-hand also available. Includes a pre-wired 50 amp AC-bypass switch and 50 amp AC input disconnect, pre-wired 125, 175 or 250 amp inverter battery breaker with cables, 500A/50mv shunt and DC cable covers. Battery plus plate included for attaching DC circuits. DIN rails are installed for up to 6 additional MNEAC and MNEPV AC and DC breakers. Also included: charge controller and wall mounting brackets, battery cable cover, inverter mounting hardware, grommets, bushings & installation instructions. 277 Vac breakers are suitable for 120 Vac 60Hz or 230 Vac 50Hz. ETL listed for US and Canada.



Magnum E-panels

Include the Magnum ME-RC50 remote control/display.

Inverter model		Item #	Price
MS-2012	2.0kw 120VAC 12VDC	33-501	\$ 2,079
MS-2812	2.8kw 120VAC 12VDC	33-502	\$ 2,989
MS-4024	4.0kw 120VAC 24VDC	33-503	\$ 3,259
MS-4024AE	4.0kw 120/240VAC 24VDC	33-508	\$ 3,599
MS-4448AE	4.4kw 120/240VAC 48VDC	33-509	\$ 3,599



OutBack E-panels

Inverter model		Item #	Price
FX-2012	2.0kw 120VAC 12VDC	33-601	\$ 3,195
FX-2524	2.5kw 120VAC 24VDC	33-602	\$ 3,195
FX-3048	3.0kw 120VAC 48VDC	33-603	\$ 3,195
VFX-2812	2.8kw 120VAC 12VDC	33-604	\$ 3,395
VFX-3524	3.5kw 120VAC 24VDC	33-605	\$ 3,395
VFX-3648	3.6kw 120VAC 48VDC	33-606	\$ 3,395



E-panel for XW Inverters

MNE-XW E-Panel	31-615	\$ 1,049
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E-Panel Lite (Same size as OutBack narrow)

The E-Panel Lite comes with a left-hand door, inverter breaker, pre-wired AC input and bypass, 500-amp/50mV shunt, AC terminal blocks, DIN rails, wall mounting brackets, instructions and lots of hardware

33-610 MNE-LT E-Panel Lite	\$ 659
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Synchronous (Utility Intertie) Inverters

Synchronous inverters change DC power into AC power to be fed into the utility grid. A power system with this type of inverter uses the utility company as a storage battery. When the sun is shining, your electricity comes from the PV array, via the inverter. If the PV array is making more power than you are using, the excess is sold to the utility power company through a second electric kilowatt hour meter. If you use more power than the PV array can supply, the utility makes up the difference. This type of system makes the most sense if you have utility power already at your location, because there are no batteries to maintain or replace, but it has a very long payback period and may not be cost-effective at today's electric power rates. You will also need the approval of your utility provider to intertie with their service.

Xantrex GT Series Grid Tie Solar Inverter

A grid tie inverter, with greater than 94% average efficiency to maximize your PV investment. Best price/performance ratio in the industry topped up by low installation costs and outstanding aesthetics. LCD display of instantaneous power, daily & lifetime energy production, PV array voltage, utility voltage, "selling" online today time, and fault messages. Modular design allows easy expansion. Available in 2.8kw, 3.3kw, 3.8kw, 4.0kw and 5.0kw models with 240 volt AC output.



30-915	Xantrex GT 2.8	\$ 2,499
30-916	Xantrex GT 3.3	\$ 3,029
30-917	Xantrex GT 3.8	\$ 3,299
30-918	Xantrex GT 4.0	\$ 3,399
30-919	Xantrex GT 5.0	\$ 4,159
30-920	Inverter Monitor	\$ 319

SMA America's Sunny Boy Grid Tie Inverter

SMA inverters are available in sizes from 700 to 7000 watts, making them ideal for a wide range of applications from small residential to very large 3 phase industrial systems. All SMA inverters come standard with built in LCD digital monitors that display instantaneous power output, energy delivered during the current day, and the total energy produced since installation.

The SB 700US has 3 DC input voltage ranges with 120 Vac output. The SB3000 and SB4000 are auto sensing for 208 or 240 Vac applications. The SB 5000, 6000 and 7000 can be field configured for use in 208, 240 and 277 Vac applications. The SB 3000 through 7000 come with a DC disconnect switch with an integrated 4 input fused series string combiner. The DC disconnect connects to the bottom of the inverter for easy installation or service. The SB 3000 through 7000 are field configurable for positive ground arrays.

Indoor/outdoor NEMA 3R Enclosure, powder coated aluminum (convection with regulated fan cooling). All sensitive electronic components are in a sealed compartment to ensure long life in harsh environments. Ambient temperature range: -13°F, +114°F.

All models have a 10-year standard warranty and are certified to the new UL-1741/IEEE 1547 standards.



Item #	Model	Efficiency	DC Input Voltage	Contin. Watts	AC Output Voltage	Price
30-950	SB 700USBD	91.5%	75 - 150 100 - 200 125 - 250	460 600 700	120	\$ 1,639
30-951	SB 3000US	95.0%	200 - 500	3000	208/240	\$ 2,929
30-952	SB 4000US	95.5%	250 - 600	4000	208/240	\$ 3,079
30-953	SB 5000US	95.5%	250 - 600	5000	208/240/277	\$ 4,729
30-954	SB 6000US	95.5%	250 - 600	6000	208/240/277	\$ 5,039
30-955	SB 7000US	95.5%	250 - 600	7000	208/240/277	\$ 5,489
30-959	SI5048 Sunny Island Inverter, 5000W, 48VDC					\$ 7,089

