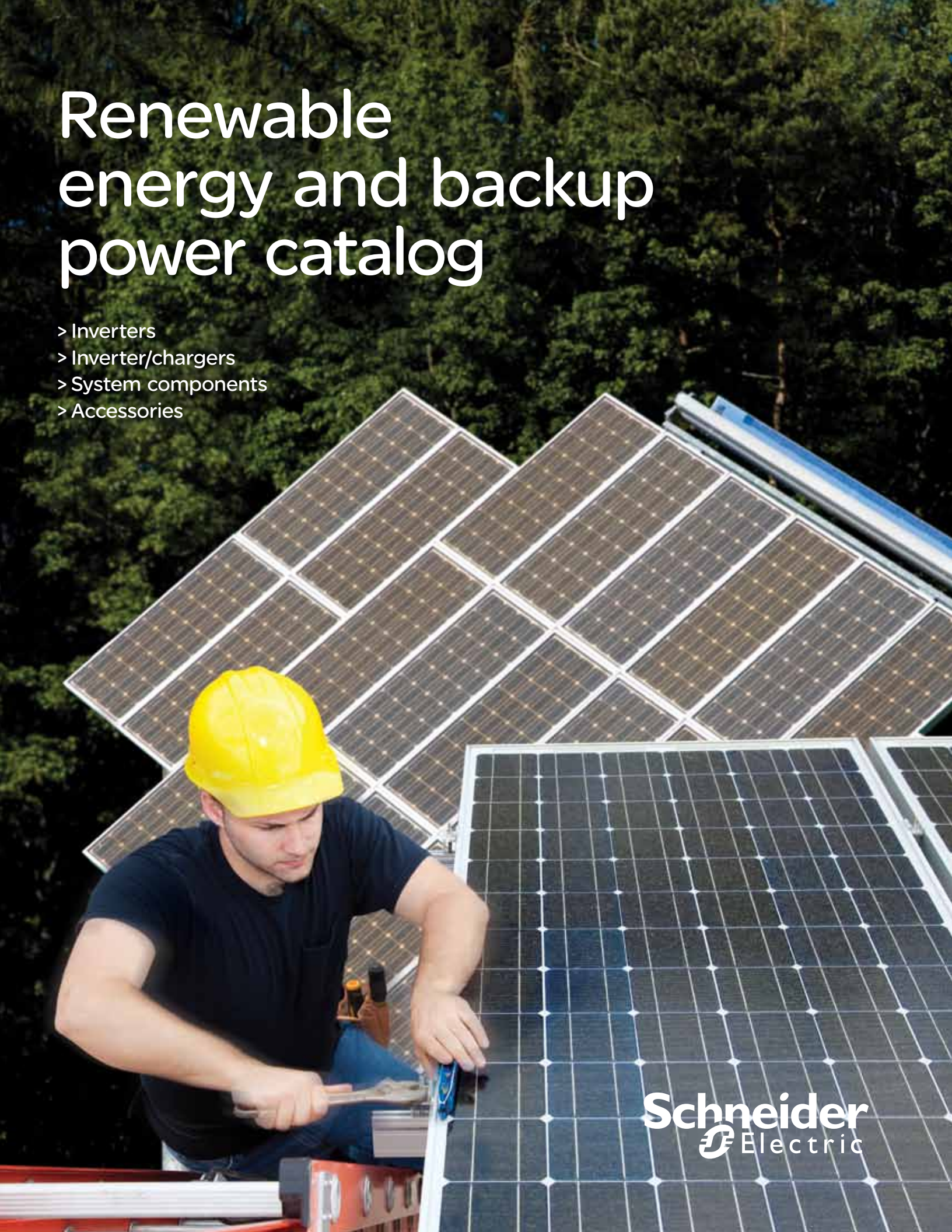
Renewable energy and backup power catalog

> Inverters
> Inverter/chargers
> System components
> Accessories



Schneider Electric

Basic grid tie system

A basic grid-tie system consists of solar cells and a grid tie inverter. Solar cells take the sun's energy and turn it into DC electricity. The inverter turns the DC electricity generated by the solar cells into utility grade AC power which can be sold to the utility grid. A grid tie system is an effective way to obtain economical benefits, increase green energy production and improve the environment.

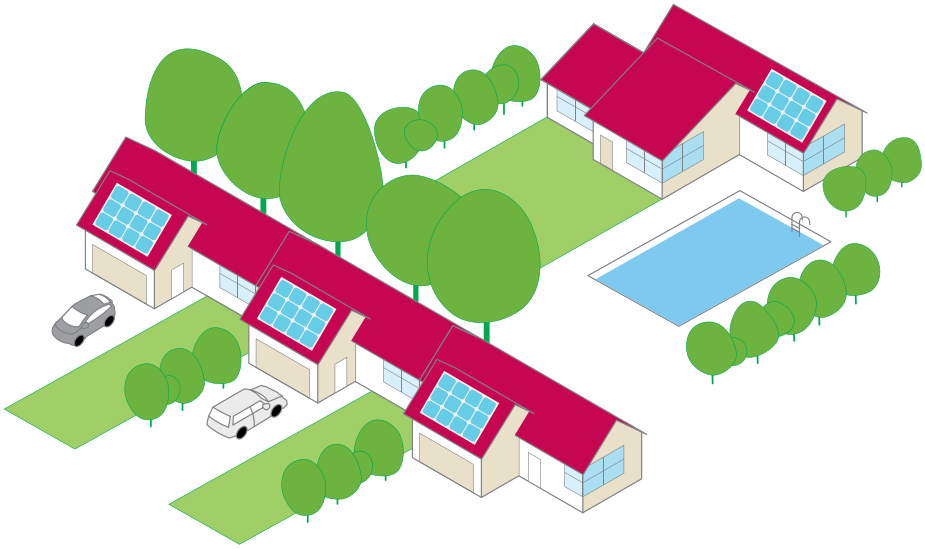
Large-scale solar electrical systems play an important part in conservation and energy production, and Schneider Electric is a premier supplier of inverters that turn the sun's energy into clean electricity. Grid tie inverters are a leading choice for large-scale solar installations in North America.



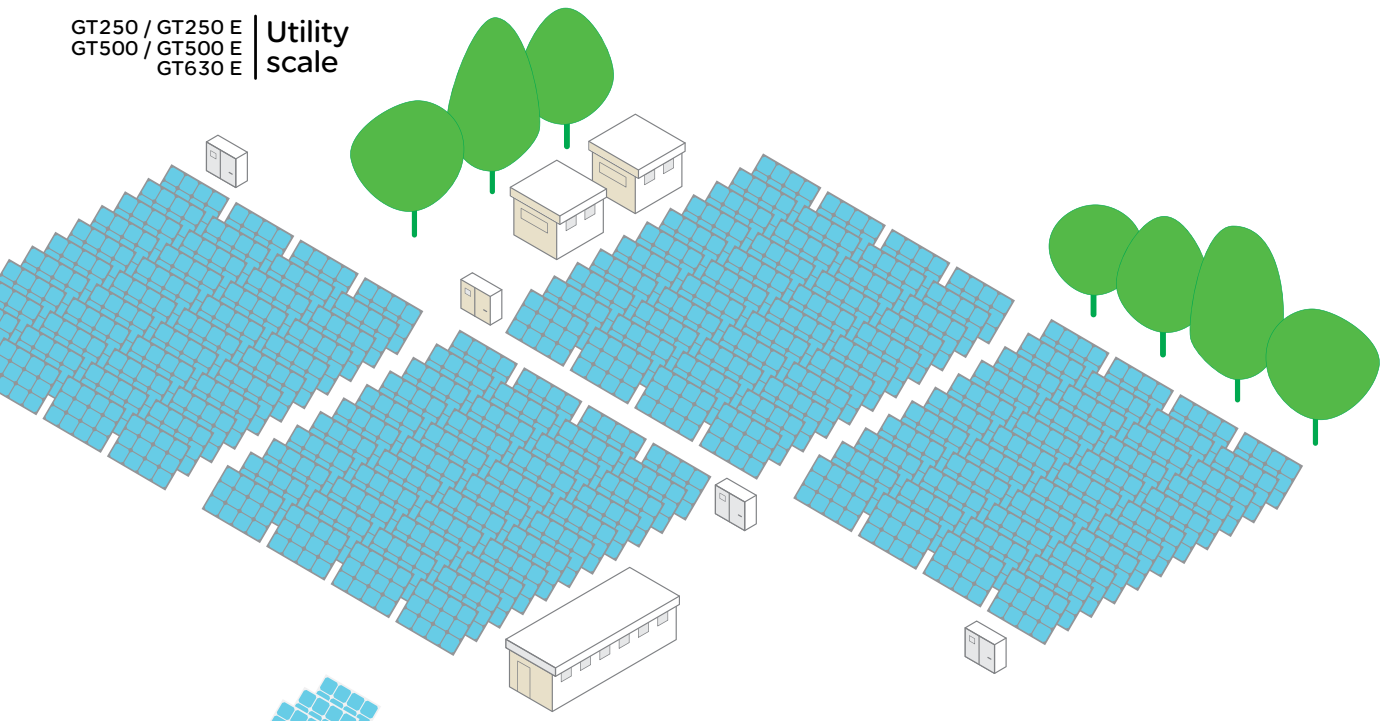
GT Series
GT30 / GT30 E
Small commercial scale

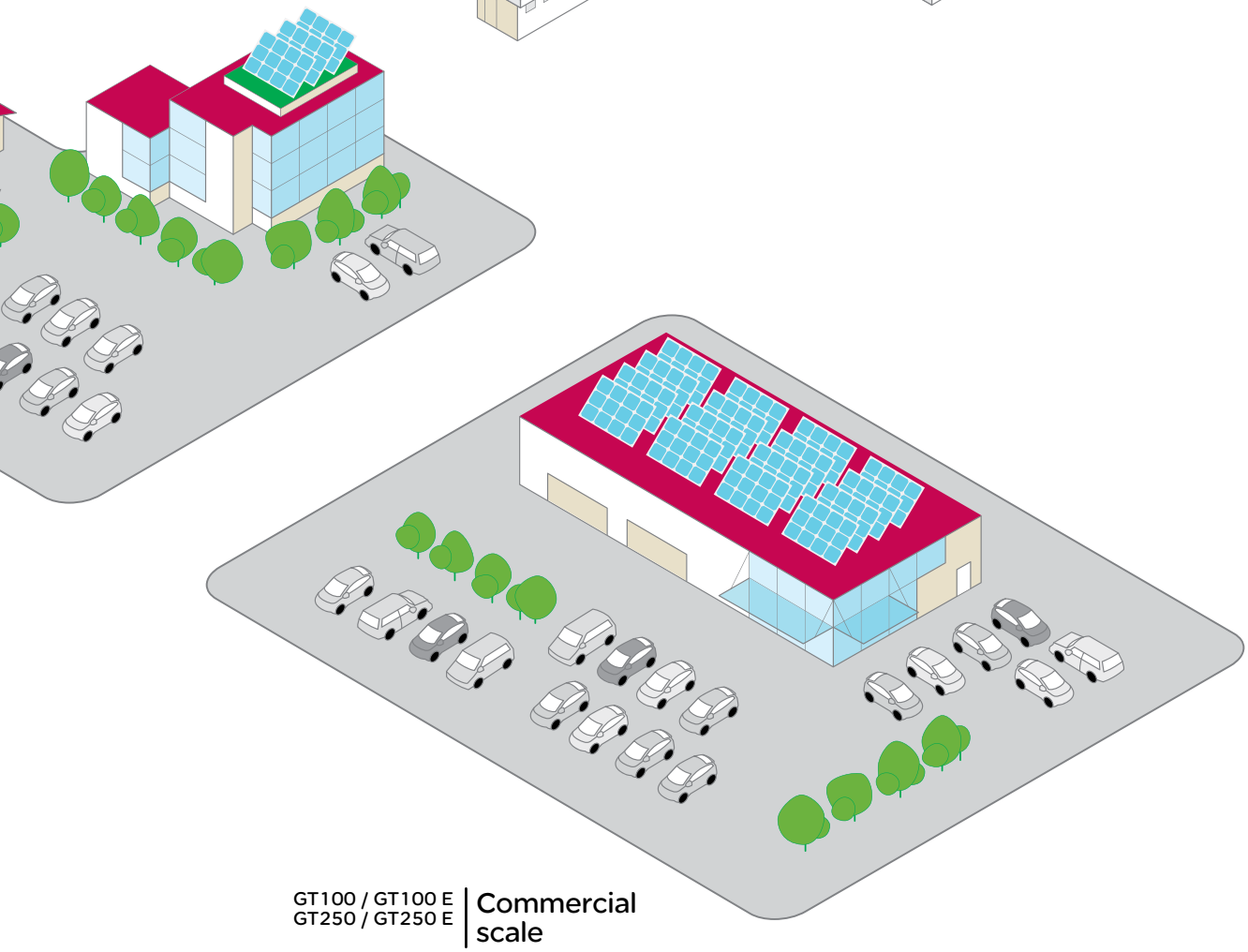


GT Series
XW System
SunEzy Series
Residential scale



GT250 / GT250 E
GT500 / GT500 E
GT630 E
Utility scale





GT100 / GT100 E
GT250 / GT250 E
Commercial scale

Xantrex™ GT Grid Tie Series Inverters



Technology

- An NEC compliant, integrated DC/AC disconnect, standard in the GT Series, eliminates the need for external DC (PV) disconnects, and in some jurisdictions, AC disconnects
- Large heat-sink offers extraordinary heat dispersion without the need for a cooling fan
- Liquid crystal display (LCD) provides instantaneous information – power level, daily and lifetime energy production, PV array voltage and current, utility voltage and frequency, time online “selling”, fault messages, and installer-customized screens
- LCD vibration sensor allows the tap of a finger to turn backlight on and cycle through display screens

Installation

- Flexible PV module selection and string sizing due to wide PV input MPPT tracking voltage range
- Lightweight and versatile mounting bracket
- Easy access DC (photovoltaic) and AC (utility) terminal block simplifies wiring
- Rugged NEMA 3R inverter enclosure allows reliable indoor and outdoor installations
- DIN rail provided to accommodate optional devices such as touch-safe fuse holders for string fusing

Performance

- High efficiency to maximize solar system return on investment
- Accurate MPPT tracking ensures maximum energy harvest under any conditions
- FCC Part B compliance provides less external electronic interference

Serviceability

- 10-year standard warranty
- Sealed inverter enclosure can be quickly separated from the wiring box allowing DC/AC connections to remain intact in the event the inverter needs to be serviced

Xantrex™ GT

(European models available)

Electrical specifications - output

Model number	GT5.0		GT4.0N		GT3.8		GT3.3N		GT2.8	
Nominal output power	5000 W	4500 W	4000 W	3800 W	3800 W	3500 W	3300 W	3100 W	2800 W	2700 W
AC output voltage (nominal)	240 V	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V	208 V
AC output voltage range	211 to 264 Vac 183 to 229 Vac									
AC frequency (nominal)	60 Hz									
AC frequency range	59.3 to 60.5 Hz									
Max. continuous output current	21 A	22 A	16.7 A	18.3 A	15.8 A	16.8 A	13.8 A	14.9 A	11.7 A	13.0 A
Max. output over-current protection	30 A		25 A		20 A	25 A	20 A		15 A	
Max. utility backfeed current	0 A									
Total harmonic distortion (THD)	< 3 %									
Power factor	> 0.99 (at rated power), > 0.95 (full power range)									
Utility monitoring, islanding protection	UL1741-2005 / IEEE 1547									
Output characteristics	Current source									
Output current waveform	True sine wave									

Electrical specifications - input

Max. array open-circuit voltage	600 Vdc									
MPPT voltage range (CEC & CSA)	240 to 550 Vdc		240 to 480 Vdc		195 to 550 Vdc		200 to 400 Vdc		195 to 550 Vdc	
MPPT operating range	235 to 550 Vdc		235 to 550 Vdc		195 to 550 Vdc		200 to 550 Vdc		193 to 550 Vdc	
Max. input current	22.0 Adc	20.0 Adc	18.0 Adc	17.0 Adc	20.8 Adc	19.5 Adc	17.5 Adc	16.5 Adc	15.4 Adc	14.9 Adc
Max. array short-circuit current	24.0 Adc									
Reverse-polarity protection	Short-circuit diode									
Ground-fault protection	GF detection, IDIF > 1 A									
Max. inverter efficiency	95.9%	95.5%	96.0%	95.7%	95.9%	95.6%	95.9%	95.6%	95.0%	94.6%
CEC efficiency	95.5%	95.0%	95.5%	95.0%	95.0%	95.0%	95.5%	95.0%	94.0%	93.5%
Night-time power consumption	1 W									

General specifications

Mounting	Wall mount (mounting bracket included)
Input and output terminal	AC and DC terminals accept wires sizes of #14 to #6 AWG
PV / Utility disconnect	Eliminates need for external PV (DC) disconnect. Complies with NEC requirements
Cooling	Convection cooled, fan not required
Display	Backlit, two-line, 16-character liquid crystal display provides instantaneous power, daily and lifetime energy production, PV array voltage and current, utility voltage and frequency, time online “selling”, fault messages, and installer-customizable screens
Communications	Integrated RS232 and Xanbus™ RJ45 communication ports
Wiring box	PV, utility, ground, and communications connections. The inverter can be separated from the wiring box.
Warranty	10-year standard
	Positive ground inverters are also available by special order

Environmental specifications

Operating temperature range	-13°F to 149°F (-25°C to 65°C)				
Enclosure type	NEMA 3R (outdoor rated)				
Inverter weight	58.0 lb (25.8 kg)	58.0 lb (25.8 kg)	58.0 lb (25.8 kg)	49.0 lb (22.2 kg)	49.0 lb (22.2 kg)
Shipping weight	65.0 lb (27.2 kg)	65.0 lb (27.2 kg)	65.0 lb (27.2 kg)	57.0 lb (25.9 kg)	57.0 lb (25.9 kg)
Inverter dimensions (H x W x D)	28.5 x 16 x 5.75” (72.4 x 40.3 x 14.5 cm)				
Shipping dimensions (H x W x D)	34 x 20.5 x 10.3” (86.6 x 51.8 x 26.2 cm)				

Regulatory approvals

CSA Certified to UL1741 1st Edition: Rev.2005 – inverters, converters, controllers and interconnection system equipment for use with distributed energy resources; and CSA C22.2 No.107-1-01 general use power power supplies.

Specifications subject to change without notice.

Schneider Electric Xantrex™ GT30 Grid Tie Solar Inverter



Features

- Transformerless design with high peak and CEC efficiency
- Symmetrical array design, coupled with internal inverter ground points, eliminate the need for double-insulated DC conductors
- Outdoor rated, corrosion resistant cabinet and included wall mount bracket allows for flexible installation
- AC and DC switchgear are included to reduce installation expense
- One of the lowest weight in its class at 75 kg
- Multiple inverters are easily paralleled for large PV plants
- Designed to help maximize return on investment

Xantrex™ GT30

(European models available)

Electrical specifications

Model number	GT30
Nominal power rating (AC)	28.8 kW
Maximum power output (AC)	30 kW
Maximum continuous AC current	80 A rms
Nominal AC voltage	120/208 Vac, three-phase, four-wire, WYE
Nominal AC frequency	60 Hz, +0.5Hz/-0.7Hz
Line power factor	> 0.99 above 25% rated power
AC current distortion	< 3% THD at rated power
Night consumption	< 20 W
Minimum DC voltage for feed-in	180 Vdc
Maximum PV power	35 kW
Maximum DC current	Two master source circuits – 80 A each
Maximum open-circuit voltage	430 Vdc
PV operating range	180 to 430 Vdc
Maximum efficiency	97.4%
CEC efficiency	96.0%

General specifications

Ambient temperature range	-4 ºF to 122 ºF (-20ºC to 50ºC)
Enclosure environmental rating	NEMA 3R / outdoor rated
Enclosure	Powder-coated aluminum
Weight	165 lb (75 kg)
Dimensions (H x W x D)	48 x 22 x 13” (1220 x 550 x 330 mm)
Relative humidity	0 to 95%, non-condensing

Features and options

Cooling method	Temperature-dependent forced-convection cooling
Protective functions	AC over/under voltage, AC over/under frequency, over-temperature, AC over-current, DC over-voltage and reverse-polarity protection
User display	Standard LCD four-line text display
Ground-fault protection	DC ground-fault detection and interruption
Disconnects	AC and DC disconnect integral to the inverter assembly
Transformer	None required
Installation / Mounting	Wall mounted (includes mounting bracket) or optional pedestal mount
Interfaces	Standard RS485/Modbus for local and remote monitoring

Regulatory approvals

UL1741; FCC Part 15, Class A

US patent pending.
Specifications subject to change without notice.



Schneider Electric Xantrex™ GT100 and GT250 Grid Tie Solar Inverters

Features

- Ultra-efficient design with industry-leading CEC efficiency of 96%, including isolation transformer
- Integrated design with isolation transformer in one unit
- Includes AC and DC disconnects
- Integrated ground-fault detection and interruption
- Soft-start circuit to reduce nuisance trips
- Sealed design does not require filters or external air to cool sensitive components
- Back and sides of unit designed for zero clearance installations to minimize inverter space requirements
- Wiring access points on bottom, sides and back of inverter
- Removable air outlet allows inverter to be mated with venting ductwork
- Designed for fork lift or sling transportation
- Zinc primed and powder coated steel enclosure for maximum corrosion resistance
- Designed to help maximize reliability with film-type capacitors and bus bars in the power path
- Bright fluorescent green vacuum display with UV cover for ease of reading in sunlight
- RS485/Modbus and RS232 communications
- Available with a five-year standard warranty, extendable to ten years

Options

- PV Box solution with multiple inverters and medium voltage transformers
- Fused sub-array combiner integrated with the inverter enclosure
- Positive-ground configuration
- Remote monitoring and control options
- Preventative maintenance programs
- Uptime guarantees and service contracts for up to 20 years

Xantrex™ GT100 and GT250

(European models available)

Electrical specifications

Model number	GT100 208	GT100 480	GT250 480	
Maximum continuous output power	100 kW	100 kW	250 kW	
Nominal output voltage	208 Vac	480 Vac	480 Vac	(line to line, +10%-12%)
Nominal output frequency	60 Hz	60 Hz	60 Hz	(+0.5 Hz / -3.0 Hz)
Nominal output current	278 A rms	121 A rms	301 A rms	
Maximum output fault current	1100 A peak	1100 A peak	1400 A peak (duration of 0.008 sec)	
Power factor	> 0.99	> 0.99	> 0.99	
DC input voltage range	300 to 600 Vdc	300 to 600 Vdc	300 to 600 Vdc	
Peak power tracking voltage range	300 to 480 Vdc	300 to 480 Vdc	300 to 480 Vdc	
Maximum input current	347 Adc	347 Adc	867 Adc	
Maximum input short-circuit current	460 Adc	460 Adc	1214 Adc	
Maximum backfeed current	0 Adc	0 Adc	0 Adc	
Peak inverter efficiency	96.2%	96.7%	96.8%	
CEC efficiency	95.0%	96.0%	96.0%	
Night-time power consumption	< 100 W	< 100 W	< 100 W	
Maximum output over-current protection	400 A	200 A	400 A	

General specifications

Operating temperature range	5°F to 122°F (-15°C to 50°C)			
Enclosure rating	NEMA 3R (outdoor rating)			
Enclosure	Zinc coated and powder coated steel enclosure			
Unit weight	3000 lb (1361 kg)	3000 lb (1361 kg)	4450 lb (2018 kg)	
Inverter dimensions (H x W x D)	73.3 x 67.0 x 46.1” 1862 x 1702 x 1171 mm	73.3 x 67.0 x 46.1” 1862 x 1702 x 1171 mm	86.3 x 90.0 x 46.1“ 2192 x 2286 x 1171 mm	(Removable air intake reduces depth by 12” for fitting through doors)
Noise	< 70 dBA	< 70 dBA	< 70 dBA	
Altitude	up to 6600’ (2012 m) without de-rating			
Relative humidity	0 to 95% non-condensing			

Features and options

Cooling method	Forced convection cooling/sealed design
AC/DC disconnect	Standard and integrated within the inverter enclosure
Isolation transformer	Standard and integrated within the inverter enclosure
User display	Standard bright fluorescent green vacuum display
Ground-fault detection/interruption	Standard and integrated within the inverter enclosure
Communications	Optional RS485/Modbus and RS232 communications interface kit
Sub-array combiner	Optional and integrated within the inverter enclosure, 100 A, 150 A or 200 A circuits

Regulatory approvals

Certified to UL 1741 (2005 Edition) and CSA 107.1-01
Tested to IEEE 1547
FCC Part 15 Class A

Specifications subject to change without notice.



Schneider Electric Xantrex™ GT500 Grid Tie Solar Inverter

Features

- Ultra-efficient design with CEC efficiency of 97% (GT500-MVX version)
- Option to connect directly to medium voltage using a customer supplied transformer or transformer supplied by Schneider Electric
- Integrated design with isolation transformer (480 V only) in one unit
- Includes AC and DC disconnects for both 480 V and MV versions
- Integrated ground-fault detection and interruption
- Soft-start circuit to reduce nuisance trips (480 V only)
- Sealed design does not require filters or external air to cool sensitive components
- Back and sides of unit designed for zero clearance installations to minimize inverter space requirements
- Wiring access points on bottom, sides and back of inverter
- Removable air outlet allows inverter to be mated with venting ductwork
- Designed for fork lift or sling transportation
- Zinc primed and powder coated steel enclosure for maximum corrosion resistance
- Designed to help maximize reliability with film-type capacitors and bus bars in the power path
- Bright fluorescent green vacuum display with UV cover for ease of reading in sunlight
- RS485/Modbus and RS232 communications
- Available with a five-year standard warranty, extendable to ten years

Options

- PV Box solution with multiple inverters and medium voltage transformers
- Fused sub-array combiner integrated with the inverter enclosure
- Sub-array string monitoring
- Positive-ground configuration
- Remote monitoring and control options
- Preventative maintenance programs
- Uptime guarantees and service contracts for up to 20 years

Xantrex™ GT500

(European models available)

Electrical specifications

Model number	GT500 MVX
Maximum continuous output power	500 kW
Nominal output voltage	208 Vac (for direct connection to a medium voltage isolation transformer)
Nominal output frequency	60 Hz
Maximum output current	1400 A rms
Maximum output fault current	2550 A (peak for 29.4 msec)
Power factor	> 0.99
DC input voltage range	310 to 600 Vdc
Peak power tracking voltage range	310 to 480 Vdc
Maximum input current	1700 Adc
Maximum input short-circuit current	3200 Adc
Maximum backfeed current	1400 Adc
Peak inverter efficiency	98% not including MV transformer
CEC efficiency	97% not including MV transformer
Night-time power consumption	< 100 W
Maximum output over-current protection	1800 A

General specifications

Operating temperature range	-4ºF to 113ºF (-20ºC to 45ºC) low temperature option available down to -35ºC, power derating above 45ºC
Enclosure rating	NEMA 3R
Unit weight	3500 lbs (1587 kg)
Inverter dimensions (H × W × D)	88.4 × 90.0 × 49.6 in 2246 × 2286 × 1260 mm
Noise	< 70 dBA
Altitude	up to 6600’ (2012 m) without de-rating
Relative humidity	0 to 95% non-condensing

Regulatory approvals

Certified to UL 1741 (2005 Edition) and CSA 107.1-01
Tested to IEEE 1547

Specifications subject to change without notice.

PV BOX

Features

- 250 kW, 500 kW, 1 MW and 2 MW standard and custom configurations available
- State-of-the-art inverters and fused combiner boxes
- Insulated steel building
- Square D® Step-up Transformer and Medium Voltage Fused Disconnect
- Optional monitoring and SCADA



PV BOX

(European models available)

The Schneider Electric PV BOX Solar Power Conversion Substation is a pre-wired equipment package for the North American and European market, specifically designed to meet the growing demand of large scale grid-tied solar farms and large commercial rooftop solar installations. The PV BOX is a complete solution for electrical distribution, automation, security, monitoring and control available from one vendor.

Reduce your costs

Customers can reduce total electrical installation costs and project cycle time with the PV BOX. In addition, by placing the inverters into a structure with a controlled environment, the PV BOX can be installed into a variety of climates, including harsh desert environments where many future large scale solar projects are planned.

What components make up the PV BOX?

The PV BOX typically consists of solar inverters, DC combiner boxes, step-up transformers and a medium voltage switch housed in a prefabricated building to allow quick field wiring from both the solar arrays and the utility grid connection point. Other items can be added to the package including climate controls, security equipment, array string monitoring, SCADA monitoring equipment, and power metering. Custom designs are available using Xantrex™ GT250 or GT500 MVX inverters.

Several standard configurations available

- 500 kW SPCS for 600 Vdc and 480 V or 600 Vac
- 1 MW SPCS for 600 Vdc and 15 kV to 35 kVac
- 1 MW SPCS for 1000 Vdc and 15 kV to 35 kVac
- 2 MW SPCS for 1000 Vdc and 15 kV to 35 kVac

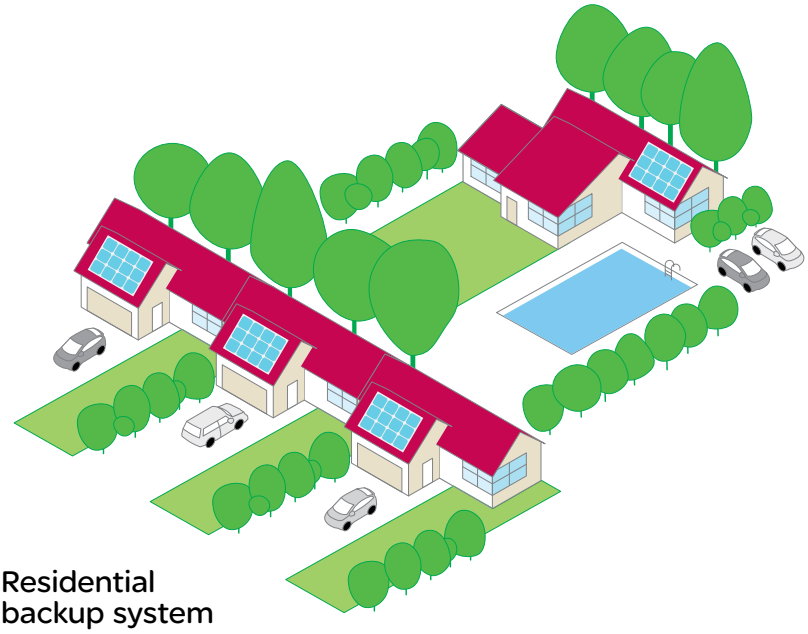
Other custom sizes and configurations available upon request.

Basic off-grid system

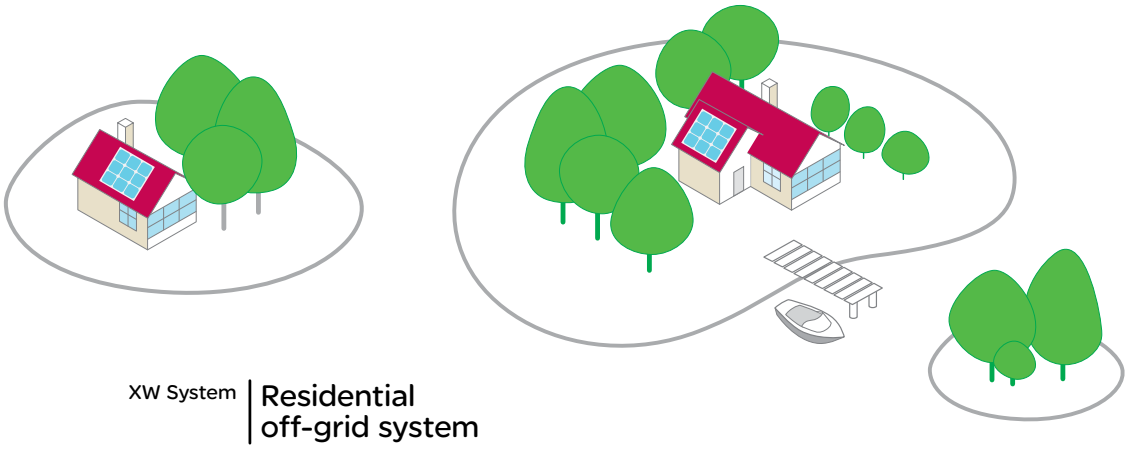
With an off-grid system, you can easily produce your own power without the expense and environmental impact of extending power lines, or relying completely on a generator.

A basic off-grid system consists of a renewable energy source, which generates DC power, a battery bank that stores the DC power, and an inverter. Our inverter is the intelligent center of a renewable power system, seamlessly converting DC power to clean AC electricity for your needs.

With a backup system, grid-connected homes can benefit from electricity even if there is a grid failure. An inverter/charger automatically detects the failure and instantly switches to backup power stored in a battery bank that stores the DC power.



XW System | Residential backup system



XW System | Residential off-grid system



Schneider Electric Xantrex™ XW Series Inverter/Chargers

Features

- True sine wave output
- 120/240 volt AC spilt-phase operation
- Dual AC inputs
- Integrated design to minimize external balance-of-system components
- Xanbus™ – enabled network communictions protocol (developed by Xantrex)
- Certified to UL1741 and CSA for utility-interactive applications
- Unprecedented surge capacity
- Efficient, power factor corrected, high-current, multistage battery charging
- Configurable for single-phase & three-phase operation via three and six unit set-ups

Xantrex™ XW

(European models available)

Electrical specifications

Model number	XW6048 120240 60	XW4548 120240 60	XW4024 120240 60
Continuous output power	6,000 W	4500 W	4000 W
Surge rating (10 seconds)	12,000 W	9000 W	8000 W
Surge current	L-N: 105 Arms (15 sec) L-L: 52.5 Arms (15 sec)	L-N: 75 Arms (20 sec) L-L: 40 Arms (20 sec)	L-N: 70 Arms (20 sec) L-L: 35 Arms (20 sec)
Waveform	True sine wave	True sine wave	True sine wave
Low-load efficiency	95%	95%	94%
Idle consumption - search mode	< 8 W	< 8 W	< 8 W
AC connections	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)
AC voltage	120/240 Vac split-phase	120/240 Vac split-phase	120/240 Vac split-phase
AC input breaker	60 A two-pole	60 A two-pole	60 A two-pole
Utility interactive	Yes	Yes	Yes
CEC weighted efficiency	92.5%	93%	91%
CEC power rating	5752 W	4500 W	4000 W
AC input voltage range (bypass/charge mode)	L-N: 80 - 150 Vac (120 V nominal); L-L: 160 - 270 Vac (240 V nominal)		
AC input frequency range (bypass/charge mode)	55 to 65 Hz (default); 44 to 70 Hz (allowable)		
AC1 voltage range – Sell mode	L-N: 108 - 130 +/- 1.5 Vac; L-L: 214 - 260 +/- 3.0 Vac (automatically adjusts when entering Sell mode)*		
AC1 frequency range – Sell mode	59.4 - 60.4 +/- 0.05 Hz (automatically adjusts when entering Sell mode)*		
AC output voltage	L-N: 120 Vac +/- 3%; L-L: 240 Vac +/- 3%		
AC output frequency	60.0 +/-0.1 Hz		
DC current at rated power	130 A	96 A	178 A
Total harmonic distortion	< 5%		
Automatic transfer relay	60 A		
Typical transfer time	8 ms		
DC input voltage (nominal)	50.4 Vdc	50.4 Vdc	25.2 Vdc
DC input voltage range	44 to 64 Vdc	44 to 64 Vdc	22 to 32 Vdc
Maximum continuous charge rate	100 A	85 A	150 A
Efficiency at maximum charge rate	89.4%	90.2%	85.8%
Power factor corrected charging	0.98	0.98	0.98
Emissions	FCC Class B	FCC Class B	FCC Class B
Multiple-unit configurations	Up to three parallel units in 120/240-volt split-phase configuration		
Auxiliary relay output	0 to 12 Vdc, maximum 250 mA DC		
System network	Xanbus™ (publish-subscribe network, no need for hubs or special cards)		

General specifications

Mounting	Wall mount, backplate included		
Inverter dimensions (H x W x D)	23 x 16 x 9” (580 x 410 x 230 mm)		
Shipping dimensions	28 x 22 ¼ x 10 ½” (711 x 565 x 267 mm)		
Inverter weight	121.7 lb (55.2 kg)	118 lb (53.5 kg)	116 lb (52.5 kg)
Shipping weight	169 lb (76.7 kg)	165 lb (75 kg)	163 lb (74 kg)
Display panel	Status LEDs indicate AC In status, faults/warnings, equalize mode, battery level. Three-character display indicates output power or charge current, fault/warning codes. On/off and equalize buttons		
Battery temperature sensor	Included	Included	Included
Standard warranty	Five years (10 years optional)	Five years (10 years optional)	Five years (10 years optional)

Environmental specifications

Enclosure type	NEMA Type 1 – Indoor (sensitive electronic components sealed inside enclosure)
Operational temperature range	-13 to 158 °F (-25 to 70 °C)

Regulatory approvals

UL 1741 1st Edition: 2005 Version CSA 107.1-01

Specifications are subject to change without notice.



Schneider Electric Xantrex™ TR Series Inverter/Chargers

Features

- New digital display shows kilowatts (kW) when inverting and amps (A) when charging, plus incorporates a robust ON/OFF membrane switch and status indicators
- New power factor corrected (PFC) charging, combined with a more sophisticated multi-stage battery charging algorithm, reduces electricity draw and generator run-time
- Simplified controls with a snap-on cover that protects settings from being accidentally changed
- Better thermal performance allows full output power to 50°C (122°F) without de-rating
- High surge capacity starts more difficult loads and handles overload conditions with greater reliability
- Circuit boards are conformally-coated to protect them from corrosion for longer life and improved reliability
- Durable powder coated, corrosion resistant steel chassis

Options

- TR-Remote On/Off Switch – includes LED status indicator (P/N: 989-1060)
- TR-Conduit Box – connects to the DC side of the inverter and accepts ¾”, 1” or 2” conduit (P/N: 989-1050)

Xantrex™ TR

(European models available)

Electrical specifications

Model number	TR1512 120 60	TR2412 120 60	TR1524 120 60	TR2424 120 60	TR3624 120 60
Invert mode – waveform	Modified sine wave				
Continuous output power	1500 VA	2400 VA	1500 VA	2400 VA	3600 VA
AC output voltage (rms)	120 Vac	120 Vac	120 Vac	120 Vac	120 Vac
AC output frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Rated AC output current	12.5 Aac	20 Aac	12.5 Aac	20 Aac	30 Aac
Surge capability max. output & duration Overload 10 sec rating	3000 VA	4800 VA	3000 VA	4800 VA	7200 VA
Short circuit 10 sec rating	50±5 Apk	80±8 Apk	50±5 Apk	80±8 Apk	120±12 Apk
Adjustable load sensing range	Five watts minimum to 240 watts maximum				
DC input current at no load – search mode	0.35 amps	0.35 amps	0.17 amps	0.17 amps	0.20 amps
Efficiency – peak	> 90%	> 92%	> 92%	> 93%	> 94%
DC input voltage range	11.0 to 15.0 Vdc	11.0 to 15.0 Vdc	22.0 to 30.0 Vdc	22.0 to 30.0 Vdc	22.0 to 30.0 Vdc
Rated DC input current	157 amps	252 amps	76 amps	120 amps	186 amps
Load power factor (allowed)	0.8 to 1.0 (leading or lagging)				
Series operation	Yes – Two units can be connected to produce 120/240 Vac split phase power, stacking cable included				
Bypass / charge mode – AC input voltage range	65 to 140 Vac (wide), 95 to 140 Vac (narrow)				
AC input frequency range	55 to 64 Hz (narrow-charge & pass-through), 55 to 68 Hz (wide-charge), 41 to 68 Hz (wide pass-through)				
Built-In internal supplemental breakers	30 Aac bypass, 20 Aac charger	30 Aac bypass, 30 Aac charger	30 Aac bypass, 20 Aac charger	30 Aac bypass, 30 Aac charger	30 Aac bypass, 30 Aac charger
DC charger rate (adjustable)	10 to 70 amps	14 to 100 amps	5 to 35 amps	10 to 70 amps	10 to 70 amps
AC input current at max. charge rate	11.2 Aac	15.8 Aac	10.2 Aac	19.7 Aac	19.5 Aac
AC input power factor	0.88	0.89	> 0.88	0.92	0.93
Multi-stage charging	Yes – bulk, absorption and float, plus user-initiated equalize (for flooded batteries only)				
Temperature compensation	Battery temperature sensor included				
Automatic transfer relay	30 amps	30 amps	30 amps	30 amps	30 amps
Transfer time (typical)	< 40 ms (wide), < 20 ms (narrow)				

General specifications

Dimensions (W x H x L)	8.5 x 7.25 x 21” (216 x 184 x 546 mm)				
Weight	40 lbs (18 kg)	42 lbs (19 kg)	40 lbs (18 kg)	45 lbs (20 kg)	45 lbs (20 kg)
Shipping dimensions (W x H x L)	12.4 x 11.8 x 26.6” (315 x 300x 675 mm)				
Shipping weight	50 lbs (22.7 kg)	52 lbs (23.6 kg)	50 lbs (22.7 kg)	55 lbs (24.9 kg)	55 lbs (24.9 kg)
Operating temperature range	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C
Mounting	Wall-mount (with 16” mounting centers)				
Warranty	Two years	Two years	Two years	Two years	Two years

Regulatory approvals

CSA Certified to CSA 107.1, UL1741, FCC Class B and Industry Canada, CE

Specifications subject to change without notice.



Schneider Electric Xantrex™ XW MPPT Solar Charge Controller

Features

- Maximum Power Point Tracking (MPPT) algorithm continually seeks the maximum power available from the PV array
- Integrated PV ground-fault protection
- Reliable, convection-cooled design does not require a cooling fan – large, aluminum, die-cast heat-sink allows full output current up to 45°C without thermal derating
- Selectable two or three stage charging algorithms with manual equalization to maximize system performance and improve battery life
- Configurable auxiliary output
- Two-line, 16-character liquid crystal display (LCD) and four buttons for configuration and system monitoring
- Input over-voltage and under-voltage protection, output over-current protection, and backfeed (reverse current) protection (warning and fault messages appear on LCD when unit shuts down as a protective measure)
- Over-temperature protection and power derating when output power and ambient temperature are high
- Battery Temperature Sensor (BTS) included – automatically provides temperature-compensated battery charging
- Xanbus™-enabled network communications protocol (developed by Xantrex)
- Communicates settings and activity to other Xanbus-enabled devices, such as the XW Hybrid Inverter/Charger, the XW System Control Panel (XW SCP), XW Automatic Generator Start (XW AGS), and other XW Solar Charge Controllers
- 5-year warranty (10-year warranty optional)

Xantrex™ XW MPPT 60 150

(European models available)

Electrical specifications

Model number	XW MPPT 60 150
Nominal battery voltage	12, 24, 36, 48, 60 Vdc
Maximum PV array voltage (operating)	140 Vdc
Maximum PV array open circuit voltage	150 Vdc
Array short-circuit current	60 Adc maximum
Maximum and minimum wire size in conduit	#6 AWG to #14 AWG
Total power consumption while operating	2.5 W (tare)
Charger regulation method	Three-stage (bulk, absorption, float) Two-stage (bulk, absorption)

General specifications

Dimensions (H × W × D)	14 ½ × 5 ¾ × 5 ½” (368 × 146 × 138 mm)
Weight (controller only)	10.75 lb (4.8 kg)
Weight (shipping)	17.6 lb (8 kg)
Shipping dimensions (H × W × D)	19 × 9 × 9 ¾” (483 × 229 × 350 mm)
Mounting	Vertical wall mount
Standard warranty	Five years (10 years optional)

Environmental specifications

Enclosure type	Indoor, ventilated, sheet metal chassis with 7/8”and 1” (22.22 mm and 27.76 mm) knockouts and aluminum heat-sink
Operating temperature range (full power)	-4 to 113 °F (-20 to +45 °C)
Storage temperature	-40 to 185 °F (-40 to +85 °C)
Altitude limit (operating)	Sea level to 15,000 feet (4572 m) @ 15 °C

Optional accessories

XW System Control Panel	865-1050
XW Automatic Generator Start	865-1060
Network cables:	
3 feet (0.9 m)	809-0935
25 feet (7.6 m)	809-0940
50 feet (15.2 m)	809-0941
75 feet (22.9 m)	809-0942

Regulatory approvals

CSA certified to CSA 107.1, UL 1741 FCC Class B and Industry Canada, CE

Specifications subject to change without notice.



Xantrex™ XW AGS

The XW Automatic Starter 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, this Automatic Starter adds intelligence to power management and eliminates time spent monitoring batteries and inverter loads.



Xantrex™ XW SCP

The XW System Control Panel is a Xanbus™-enabled device featuring a graphical, backlit LCD screen that displays system configuration and diagnostic information. Large keypad buttons, an intuitive onscreen menu system, and plain text status messages make it easy to configure and operate all devices connected to the Xanbus Network.



Xantrex™ XW PDP

The Xantrex XW Power Distribution Panel with conduit box is factory-wired and labeled to support a code-compliant single-inverter installation. 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.



Xantrex™ XW CK

The XW Connection Kit is a wiring kit and conduit box used to connect a second inverter to a Xantrex XW Power Distribution Panel. All wires are measured, pre-cut and labeled to facilitate quick and easy installation.



Xantrex™ XW CB

The 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.



Xantrex™ Gateway

The Xantrex Communication Gateway bridges the gap between a GT Series or XW System and the system owner's computer, making it the central component for a residential or small commercial remote monitoring system. The Gateway includes both built-in Wi-Fi and Ethernet connectivity allowing for flexible and simple set up for wireless or wired connection to a router or direct to a PC.



Xantrex™ GT SIM

The Xantrex Grid Tie Solar Inverter Monitor features a graphical, backlit LCD screen to monitor your single or multi-inverter PV system in one convenient location inside the home. The GT SIM is a simple means of monitoring your solar system, with its large keypad buttons, an intuitive on-screen menu system, and plain text status messages to make the monitor easy to read and use. The monitor easily connects to Xantrex GT Series inverters using standard CAT5 Ethernet cable that also provides power to the monitor. Built-in flash memory stores PV system data and makes software upgrades simple.

Xantrex is now Schneider Electric!

Our transformation to Schneider Electric ensures our global leadership position in the renewable energy market. We've been trusted innovation leaders for over 20 years manufacturing residential, small and large commercial inverters.

As part of the Schneider Electric brand of companies, such as Square D, APC and Pelco, we can confidently design and deliver complete renewable energy solutions. As a global leader in energy management, we want to be your partner and help you make the most of your energy.



www.schneider-electric.com

Schneider Electric

Make the most of your energy

North America

161-G South Vasco Road
Livermore, California
USA 94551

Tel:. 925 245 5400
Fax 925 245 1022

Schneider Electric

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in energy and infrastructure, industrial processes, building automation, and data centres/networks, as well as a broad presence in residential applications. Focused on making energy safe, reliable, and efficient, the company's 100,000 plus employees achieved sales of 15.8 billion euros in 2009, through an active commitment to help individuals and organizations "Make the most of their energy".

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