

CLIPSAL[®]

by Schneider Electric

Get connected with xantrex Grid-Tie Inverters



Available in 2800 or 5000 watt
power output.

clipsal.com

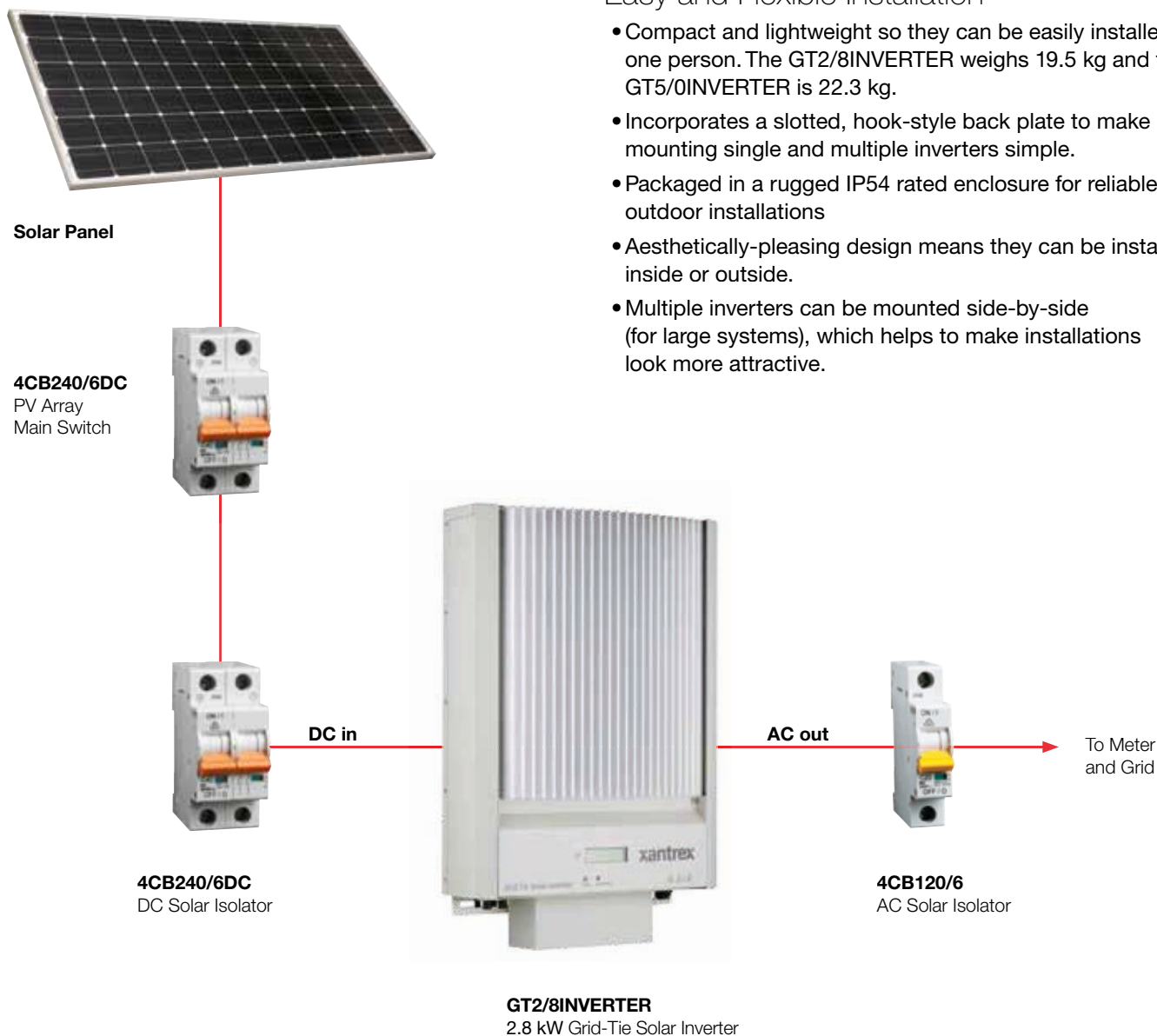
xantrex[™]
Smart choice for power[™]

Redefining the grid-tie inverter is a tall order, but that's exactly what Clipsal have done with their Xantrex grid-tie solar inverters.

Clipsal's Xantrex inverters offer superior photovoltaic (PV) energy harvest, easy installation and state-of-the-art design. Their isolated transformer provides safety and reliability, while maintaining high conversion efficiency. They also set a new standard on the market for inverter value, by offering great price to performance ratio.

Easy and Flexible Installation

- Compact and lightweight so they can be easily installed by one person. The GT2/8INVERTER weighs 19.5 kg and the GT5/0INVERTER is 22.3 kg.
- Incorporates a slotted, hook-style back plate to make mounting single and multiple inverters simple.
- Packaged in a rugged IP54 rated enclosure for reliable outdoor installations
- Aesthetically-pleasing design means they can be installed inside or outside.
- Multiple inverters can be mounted side-by-side (for large systems), which helps to make installations look more attractive.



Improved Local Display

Clipsal Xantrex inverters come standard with a backlit 16 character, two line liquid crystal display (LCD) and two installer customised screens. Useful for troubleshooting and system feedback, the LCD provides a variety of information including:

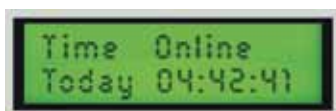
- Up-to-the-minute inverter power



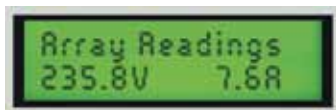
- Daily and lifetime energy production



- Time online selling today



- PV array voltage and current



- Utility voltage and frequency



- Fault message



Tapping a finger close to the LCD activates the backlight display. With each tap, the display cycles through all the communication screens. The LCD is always on standby, ready to provide information; even at night.

The Xantrex inverter is equipped with two status indicator lights. Only one indicator light will be lit at any time.

Red LED (online)

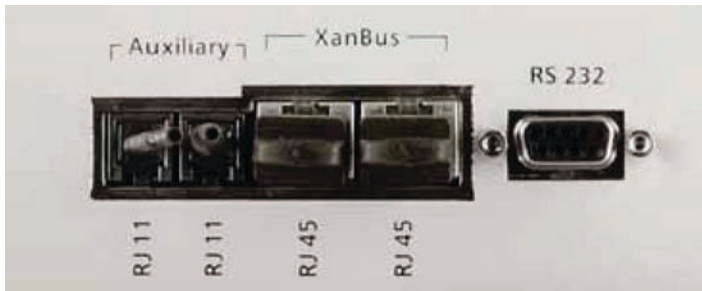
Ground fault condition detected. Check for any fault messages on the LCD display

Green LED (ground fault)

The inverter is on (DC voltage and AC voltage are qualified and the protection timer has finished) and delivering energy to the grid. Turns off when a fault state is detected.

Standard Communications

Every Clipsal Xantrex inverter has an isolated RS232 port and two Xanbus™ RJ45 communication ports. Unlike other inverters, no additional communication ports or cards are required to connect a PC. The LCD can be used simultaneously, even when a PC is connected to the RS232 port.



Superior PV Energy Harvest

Engineered to make the most of a PV grid-tie system investment, Clipsal Xantrex inverters provide high power conversion efficiency, excellent thermal performance, and rapid Maximum Power Point Tracking (MPPT).

Rapid Maximum Power Point Tracking

The Xantrex algorithm has a rapid response to irradiance change, like moving cloud coverage, that maximizes the output energy of connected PV strings. It has a wide input range from 195 to 550 volts DC (GT2/8INVERTER) and 240 to 550 volts DC (GT5/0INVERTER), ensuring the inverter begins to operate earlier in the day, and is more resistant to array shading. It also allows more flexible array sizing.

High Efficiency

For small and large systems, Clipsal Xantrex inverters offer high peak and average efficiency, to convert all the valuable energy produced by solar panels into usable electricity.

Excellent Thermal Performance

The design of the inverters are suited to high heat environments, with their large aluminium heat sinks to keep their electronics cool in even the hottest climates.

Once the heat sink on the inverter reaches a temperature limit, it reduces its energy output to ensure it doesn't exceed maximum ratings.

- Operating temperature range is -25 to +65°C.

High Reliability

To ensure the Xantrex inverters are a dependable and high quality product, they are tested extensively during the design process using an evaluation method called Highly Accelerated Life Testing (HALT). HALT combines powerful thermal and vibration technologies to stress a product beyond its specifications. This helps to locate and identify any product defects that may not be discovered by testing methods typically used by other inverter manufacturers. The sophisticated HALT technique goes beyond conventional testing, which results in improved product reliability and quality. Prior to market introduction, the Xantrex inverters logged more than 25,000 test hours in home installations.

Easy Maintenance

Clipsal Xantrex inverters also provide an easy method of maintenance and service. With no fan there are no parts to replace. Regular cleaning and maintenance is made simple with the heat sink visible to the front of the inverter.

Warranty

Clipsal Xantrex inverters come with a standard warranty that covers parts and labour for five years. There is also an option to extend the warranty to 10 years.

Local After Service Network

Our customer service program provides total installation and commissioning support, product training and technical phone service.

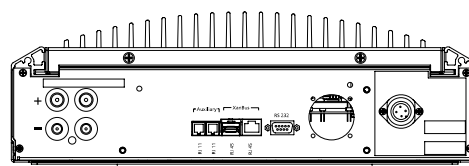
Clipsal Quality

Clipsal's Xantrex inverters add to our reputation of quality innovative products over the last 90 years. Popular overseas, these inverters have set the standard for others in Australia. Don't be left behind, choose a Clipsal Xantrex inverter.

Technical Specifications

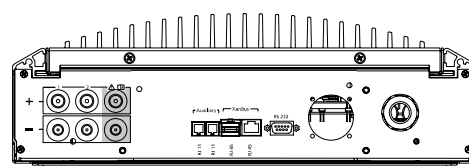
The compact, transformer isolated design of Clipsal Xantrex inverters look great on any wall, and can be easily installed by one person. Multiple units can also be seamlessly integrated side-by-side for a better visual appeal.

GT2/8INVERTER



Mechanical Specifications	GT2/8INVERTER
Inverter dimensions (H x W x D)	597 x 403 x 136 mm
Shipping dimensions (H x W x D)	692 x 518 x 262 mm
Inverter weight	19.5 kg
Shipping weight	25.5 kg
Input terminals	Multi-contact Quick Connect MC3
Output terminals (GT2.8)	Binder 693 Series male socket (mate with supplied female cable connector)

GT5/0INVERTER



Mechanical Specifications	GT5/0INVERTER
Inverter dimensions (H x W x D)	597 x 403 x 168 mm
Shipping dimensions (H x W x D)	720 x 577 x 291 mm
Inverter weight	22.3 kg
Shipping weight	27.2 kg
Input terminals	Multi-contact Quick Connect MC3
Output terminals (GT5.0 only)	Hard wired internally

Electrical Specifications		
Input	GT2/8INVERTER	GT5/0INVERTER
Input voltage, Maximum Power Point range	195 to 550 VDC	240 to 550 VDC
Absolute maximum array open circuit voltage	600 VDC	600 VDC
Maximum input current	15.4 ADC	22 ADC
Maximum array short circuit current	24 ADC	24 ADC
Ground fault protection	Unit shut down if a high impedance is not detected.	Unit shut down if a high impedance is not detected.
Recommended PV array power*	3070 W	5300 W
*These values can change depending on environmental conditions. To ensure maximum power yield for your installation, the PV array size should be reviewed as part of the system design.		
Output	GT2/8INVERTER	GT5/0INVERTER
Maximum output power	2800 WAC @ 50 °C before de-rating	5000 WAC @ 40 °C before de-rating
Maximum output current	14 A	24 A
Nominal grid voltage	230 VAC	230 VAC
Nominal grid frequency	50 Hz	50 Hz
Total Harmonic Distortion (THD)	< 3%	< 3%
Power factor	> 0.99% (at rated power) > 0.95% (full power range)	> 0.99% (at rated power) > 0.95% (full power range)
Output characteristics	Current source	Current source
Output current waveform	Sine wave	Sine wave
Efficiency	GT2/8INVERTER	GT5/0INVERTER
Maximum peak efficiency	95%	96%
Nighttime tare loss	1 W	1 W
Environmental Specifications	GT2/8INVERTER	GT5/0INVERTER
Operating temperature range	-25 to +65 °C	-25 to +65 °C
Storage temperature range	-40 to +85 °C	-40 to +85 °C
Tolerable relative humidity limit	Operating: < 95%, non-condensing Storage: 100% condensing	Operating: < 95%, non-condensing Storage: 100% condensing
Enclosure	IP54, outdoor rated and weatherproof	IP54, outdoor rated and weatherproof
User Display	GT2/8INVERTER	GT5/0INVERTER
Type	alphanumeric liquid crystal with backlight	alphanumeric liquid crystal with backlight
Size	2 lines by 16 characters	2 lines by 16 characters
Display Accuracy	GT2/8INVERTER	GT5/0INVERTER
Instantaneous Power	+/- (30 W + 1% of reading)	+/- (30 W + 1% of reading)
Voltage	+/- (1% of rating + 1% of reading)	+/- (1% of rating + 1% of reading)
Current	+/- (1% of rating + 1% of reading)	+/- (1% of rating + 1% of reading)
System Lifetime energy	+/- 5%	+/- 5%
Warranty	5 year parts and labour (10 year extended warranty available). Both models.	
Note: Specifications are subject to change without notice.		
Mechanical Specifications	GT2/8INVERTER	GT5/0INVERTER
Inverter dimensions (H x W x D)	597 x 403 x 136 mm	597 x 403 x 168 mm
Shipping dimensions (H x W x D)	692 x 518 x 262 mm	720 x 577 x 291 mm
Inverter weight	19.5 kg	22.3 kg
Shipping weight	25.5 kg	27.2 kg
Input terminals	Multi-contact Quick Connect MC3	Multi-contact Quick Connect MC3
Output terminals (GT2/8INVERTER only)	Binder 693 Series male socket (mates with supplied female cable connector)	Hard wired internally
Approvals	Regulatory approvals Safety: RCM mark per AS/NZS 3100 EMC: RCM mark per EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3 Interconnect: AS4777.2-2005, AS4777.3-2005 Other approvals Australian Clean Energy Council "Tested and approved grid connected inverters" list	
Accessories	Remote display Optional GT Solar Inverter Monitor provides total PV system performance in daily, monthly and lifetime views, on a graphical screen. Monitors up to five GT series inverters. Remote monitoring Optional Xantrex™ Communication Gateway includes both built-in Wi-Fi and Ethernet connectivity allowing for wireless or wired connection to a router or directly to a PC. Logs performance data and provides a simple and graphically rich view of system performance through Yahoo™ Widget based monitoring software. The Gateway monitors up to 20 GT series inverters.	

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