

# Schneider Electric GT100 Grid Tie Solar Inverters

Easy to install and operate, the Schneider Electric GT100 grid tie inverters automate startup, shut down and fault detection scenarios. They incorporate advanced Maximum Power Point Tracking technology to maximize the energy harvested from a PV array. To ensure reliability, the GT100 and their sub-components have been tested using Highly Accelerated Life Testing (HALT). Multiple inverters are easily paralleled for larger power installations.

## Features

- Integrated design with isolation transformer
- Includes AC and DC disconnects
- Integrated ground fault detection and interruption
- Soft-start circuit to reduce nuisance trips
- Sensitive components are protected from the environment while heat generating components are in the cooling airflow
- Back and sides of unit designed for zero clearance installations to minimize inverter space requirements
- Wiring access points on bottom and sides of inverter
- 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
- Five-year standard warranty

## 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
- Warranty extensions and service contracts with uptime guarantees



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# Schneider Electric GT100 Solar Inverters



Device short name	GT100 208	GT100 480
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## Electrical specifications

### Input (DC)

Photovoltaic power	105 kW	105 kW
Input voltage range, MPPT	300 to 480 V	300 to 480 V
Max. input voltage, open circuit	600 V	600 V
Max. input current	347 A	347 A
Max. input short circuit current	460 A	460 A
Utility backfeed current	0 A	0 A

### Output (AC)

Nominal output power	100 kW	100 kW
Output voltage	208 V, three-phase (line to line, +10%-12%)	480 V, three-phase (line to line, +10%-12%)
Frequency	60 Hz (+0.5 Hz / -0.7 Hz)	60 Hz (+0.5 Hz / -0.7 Hz)
Nominal output current	278 A	121 A
Power factor	> 0.99	> 0.99
Harmonic distortion	< 3% at rated power	< 3% at rated power
Topology	Isolation transformer standard and integrated within the inverter enclosure	

## Efficiency

Peak	96.2%	96.7%
CEC weighted	95.0%	96.0%

## General specifications

Power consumption, night time	< 100 W	< 100 W
NEMA degree of protection	Type 3R (outdoor rating)	Type 3R (outdoor rating)
Enclosure material	Zinc coated and powder coated steel	
Product weight	1361 kg (3000 lb)	1361 kg (3000 lb)
Product dimensions (H x W x D)	186.2 x 170.2 x 117.1 cm (73.3 x 67.0 x 46.1 in) (Removable air intake reduces depth by 12 in for fitting through doors)	186.2 x 170.2 x 117.1 cm (73.3 x 67.0 x 46.1 in) (Removable air intake reduces depth by 12 in for fitting through doors)
Ambient air temperature for operation	-15°C to 50°C (5°F to 122°F) available lower temperature option with space heaters	-15°C to 50°C (5°F to 122°F) available lower temperature option with space heaters
Operating altitude	Up to 2012 m (6600 ft) without de-rating	
Relative humidity	0 to 95% non-condensing	0 to 95% non-condensing
Part number	1-153392-01*	1-153391-01*

## Features and options

Type of cooling	Forced convection cooling
Display type	Standard bright fluorescent green Vacuum display
Communication interface	Optional RS485/Modbus and RS232 communications interface kit
AC/DC disconnect	Standard and integrated within the inverter enclosure
Ground fault detection/interruption	Standard and integrated within the inverter enclosure
Sub-array combiner	Optional integrated with the inverter enclosure

## Regulatory approvals

Safety	CSA certified to UL1741 Ed. 2, CSA 107.1-01
Interconnect	IEEE 1547

Specifications are subject to change without notice.

\* Other options available upon request.

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