

G-4000TL

Grid Connected Inverter



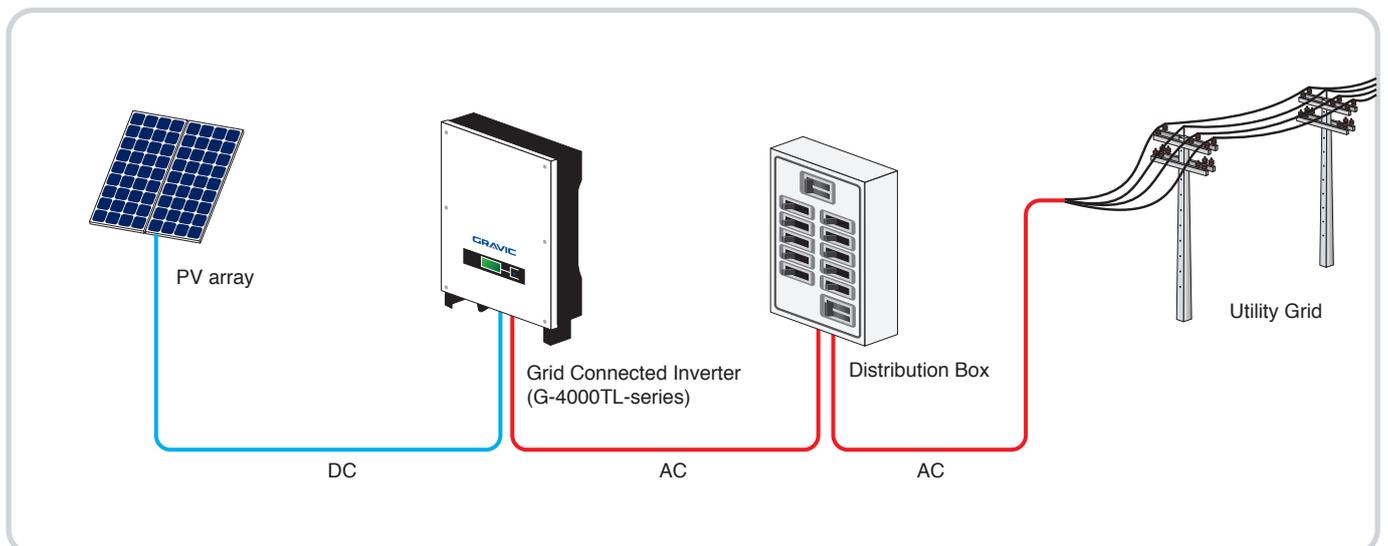
Single Phase Transformerless Grid Connected Inverter

G-4300TLS
G-4500TLD



High performance single phase grid connected inverter that integrated with PV maximum power point tracking (MPPT) to extract maximum DC power generated by PV array. It can operate at their optimum power output voltage even under variety weather conditions and also offers user-friendly and high efficiency circuit design. With real-time monitoring software, the inverter can help users to monitor and calculate the accurate saving energy.

- Output transformerless topology
- High efficiency
- Integrate with Maximum Power Point Tracking (MPPT)
- Built-in DC switch
- Special design for using at high grid fluctuation area
- Industrial-grade components used for robust operation
- IP65 protection for outdoor and harsh environment
- Simple and easy installation
- Real time monitoring software
- Frequency shift power control scheme (option)
- Tested for PEA regulation ((P)-suffix model) and MEA regulation ((M)-suffix model)
- Grid connection approval from PEA and MEA
- Tested to comply with IEC 61727 and IEC 62116 standards
- 5 Years warranty
- ISO 9001, ISO 14001 and ISO 45001 certified factory



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MODEL		G-4300TLS	G-4500TLD
RATED POWER	DC input	3.1 kW	5.2 kW
	AC output	3.0 kW	5.0 kW
SYSTEM	Topology	Transformerless	
DC INPUT	Nominal DC voltage	380 Vdc	380 Vdc
	MPPT voltage range (Vmp)	100 - 490 Vdc	100 - 490 Vdc
	Full load MPPT voltage range	240 - 400 Vdc	200 - 400 Vdc
	Maximum DC voltage (Voc)	500 Vdc	500 Vdc
	Minimum / Start-up voltage	120 Vdc / 130 Vdc	120 Vdc / 150 Vdc
	Maximum input current	13 A	13 A / 13 A
	Number of MPPTs / Strings per MPPT	1 / 1	2 / 1
AC OUTPUT	Voltage	220 Vac (L-N) (for PEA grid line; "(P)" suffix in model name) 230 Vac (L-N) (for MEA grid line; "(M)" suffix in model name)	
	Phase	Single phase	
	Frequency	50 / 60 Hz	
	Maximum output current	14 A	22 A
	Power factor	0.9 leading to 0.9 lagging	
	Total harmonic distortion	THDi < 3%	
	EFFICIENCY	Peak efficiency	97.6%
EURO efficiency		97.0%	97.5%
PROTECTION	Reverse polarity	yes	
	DC switch	yes	
	Ground fault detection	yes	
	Grid monitoring	yes	
	AC Short circuit	yes	
	Over voltage	yes	
	Over current	yes	
	Active anti-islanding	yes	
INDICATOR	LED	Inverter status, Fault	
	LCD display	Inverter status, Power, Today generated energy, Total generated energy, Grid line voltage / current / frequency, Power factor, Total run time, PV voltage and current, Fault	
COMMUNICATION INTERFACE	Communication port	RS-485	
ACOUSTIC NOISE	At 1 metre	≤ 25 dBA	
ENVIRONMENT	Temperature	- 25°C to 60°C	
	Humidity	0 - 95 % (non - condensing)	
DESIGN	Standard	IEC 61727, IEC 62116, AS 3100 and AS 4777	
REGULATION	Enclosure	IP 65	
DIMENSION	W x H x D in cm.	26.4 x 32.6 x 12 cm	32.9 x 46.6 x 14.9 cm
WEIGHT	Approximate in kg.	13 kg	15.5 kg

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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