

SOLIS

Solis 2.5k-2G / 2.5k-2G-ST / 3.0k-2G / 3.0-ST



Single phase inverters

Solis-2G Single Phase (second generation)

Solis-2G single phase series inverters are the latest products of Ginlong, suitable for different types of household and commercial/industrial single phase input PV system installation. The quality of the old model was combined into GCI-2G series while many new ideas were created, to meet our vision of manufacturing “innovative” inverter.

Key Features

- Ultra wide input voltage range
- Precise MPPT algorithm
- Controlled PWM inverter technology
- Compact and light-weight, easy for one person to install
- IP65 protection class for in- and outdoor use
- RS 485, WiFi/GPRS (optional) interface
- Suitable for household distributed installation
- WiFi and monitoring APP available for iPhone and Android
- 5 year standard warranty, 10 year optional upgrade

	Solis-2.5K-2G	Solis-2.5K-2G-ST	Solis-3K-2G	Solis-3K-2G-ST
INPUT SIDE				
Max. DC input voltage	600 V	600 V	600 V	600 V
Start-up DC input voltage	120 V	120 V	120 V	120 V
MPPT operating range	100-500 V	100-500 V	100-500 V	100-500 V
Max. DC input current	10 A + 10 A	10 A	10 A + 10 A	18A
Number of MPP/Max. Strings per MPPT	2/2	1/1	2/2	1/2
OUTPUT SIDE				
Rated output power	2.5 kW	2.5 kW	3 kW	3 kW
Max. transient power	2.8 kW	2.8 kW	3.3 kW	3.3 kW
Rated AC grid voltage	220~240 V	220~240 V	220~240 V	220~240 V
AC grid voltage range (adjustable)	180~270 V	180~270 V	180~270 V	180~270 V
Operating phase	Single	Single	Single	Single
Max. AC output current	13.3 A	13.3 A	15.7 A	15.7 A
Output power factor	>0.99	>0.99	>0.99	>0.99
Total harmonic distortion (THDi)	<3%	<3%	<3%	<3%
DC injection current	<20 mA	<20 mA	<20 mA	<20 mA
Rated grid frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
EFFICIENCY				
Max. Efficiency	97.5%	97.5%	97.5%	97.5%
Euro. Efficiency	96.8%	96.8%	96.8%	96.8%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%
PROTECTION				
DC reverse-polarity protection	Yes	Yes	Yes	Yes
AC short circuit protection	Yes	Yes	Yes	Yes
AC output overcurrent protection	Yes	Yes	Yes	Yes
Output overvoltage protection	Yes	Yes	Yes	Yes
Insulation resistance monitoring	Yes	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes	Yes
Residual current detection	Yes	Yes	Yes	Yes
Surge protection	Yes	Yes	Yes	Yes
Islanding protection	Yes	Yes	Yes	Yes
Temperature protection	Yes	Yes	Yes	Yes
Integrated DC switch	Optional	Optional	Optional	Optional
GENERAL DATA				
Size (w x h x d)	339 x 565 x 173 mm			
Weight	14.5 kg			
Topology	Transformerless			
Self consumption (night)	<1 W			
Running temperature	-25°C~60°C			
Ingress protection	IP65			
Grid frequency range (adjustable)	47-52 or 57-62 Hz			
Noise emission (typical)	<30 dBA			
Cooling concept	Natural convection			
Max. operating altitude	2000 m			
Design lifetime	>20 years			
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1			
Operating surrounding humidity	0~95%			
EMC	EN61000-6-1:2007, EN61000-6-3:2007, IEC62109-1/2, AS3100			
FEATURES				
DC connection	MC-4 compatible			
AC connection	IP67 rated plug			
Display	LCD, 2 x 20 Z.			
Interface	RS 485, WiFi/GPRS (optional)			
Warranty	5 year (10 year optional)			