



GINLONG TECHNOLOGIES CO.,LTD.

S5-GR3P(12)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.7%
- String current up to 16A
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Economic

- Compact design, simple installation and maintenance
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

Models:

S5-GR3P5K / S5-GR3P6K

S5-GR3P8K / S5-GR3P10K

S5-GR3P12K / S5-GR3P13K

S5-GR3P15K / S5-GR3P17K

S5-GR3P20K



360° View



DATASHEET

S5-GR3P(12)K

Models	12K
Input DC	
Recommended max. PV power	18 kW
Max. input voltage	1100 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	160-1000 V
Max. input current	32 A / 32 A
Max. short circuit current	40 A / 40 A
MPPT number/Max. input strings number	2/4
Output AC	
Rated output power	12 kW
Max. apparent output power	13.2 kVA
Max. output power	13.2 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	18.2 A / 17.3 A
Max. output current	19.1 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<2%
DC injection current	<0.5% I _n
Efficiency	
Max. efficiency	98.5%
EU efficiency	97.9%
Protection	
DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	Yes
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated DC switch	Yes
General Data	
Dimensions (W*H*D)	310*563*219 mm
Weight	17.8 kg
Topology	Transformerless
Self-consumption (night)	<1 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Noise emission (typical)	<60 dB(A)
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4
Features	
DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST

(1) Activation required.