

S5-GR3P(5-10)K-LV

Solis Three Phase Inverters



360 degree

Model:

220V: S5-GR3P5K-LV S5-GR3P6K-LV S5-GR3P10K-LV



Efficient

- ▶ Max. efficiency 98.0%
- ▶ String current up to **16A**
- ▶ Wide voltage range and low startup voltage



Safe

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



Smart

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



Economic

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

Datasheet

Model Name	S5-GR3P5K-LV	S5-GR3P6K-LV	S5-GR3P10K-LV
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Input DC

Recommended max. PV power	7.5 kW	9 kW	15 kW
Max. input voltage	1000 V		
Rated voltage	330 V		
Start-up voltage	180 V		
MPPT voltage range	160-500 V		
Max. input current	16 A / 16 A		32 A / 32 A
Max. short circuit current	25 A / 25 A		50 A / 50 A
MPPT number/Max. input strings number	2/2		2/4

Output AC

Rated output power	5 kW	6 kW	10 kW
Max. apparent output power	5.5 kVA	6.6 kVA	11 kVA
Max. output power	5.5 kW	6.6 kW	11 kW
Rated grid voltage	3/(N)/PE, 208 V / 220 V / 240 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	13.1 A	15.7 A	26.2 A
Max. output current	14.4 A	16.7 A	28.8 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<2%		

Efficiency

Max. efficiency	98.0%
EU efficiency	97.5%

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	Optional

General Data

Dimensions (W*H*D)	310*563*219 mm		
Weight	18 kg		19.8 kg
Topology	Transformerless		
Self consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Natural convection		Intelligent redundant fan-cooling
Max. operation altitude	4000 m		
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		

Features

DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS

(1) Activation required.