

Solis Three Phase Inverters

» S5-GR3P(3-20)K





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

Model:

S5-GR3P3K S5-GR3P4K S5-GR3P5K S5-GR3P6K S5-GR3P9K S5-GR3P10K S5-GR3P10K S5-GR3P13K S5-GR3P15K S5-GR3P17K S5-GR3P20K



Datasheet													
Model Name	S5-GR3P3K	S5-GR3P4K	S5-GR3P5K	S5-GR3P6K	S5-GR3P8K	S5-GR3P9K	S5-GR3P10K	S5-GR3P12K	S5-GR3P13K	S5-GR3P15K	S5-GR3P17K	S5-GR3P2	
Input DC													
Recommended max. PV power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	13.5 kW	15 kW	18 kW	19.5 kW	22.5 kW	25.5 kW	30 kW	
Max. input voltage						110	00 V		lax Ou	tout Cu	ırrent =		
Rated voltage	600 V						Max Output Current = 15.9A. Complies with						
Start-up voltage	180 V						NC6 Requirements						
MPPT voltage range						160-1	.000 V	-		•			
Max. input current	16 A / 16 A						1		32 A / 32 A				
Max. short circuit current	20 A / 20 A						40 A / 40 A						
MPPT number/Max. input strings number	2/2						2/4						
Output AC													
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kV	
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	14.3 kVA	16.5 kVA	18.7 kVA	22 kV	
Max. output power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	9.9 kW	11 kW	13.2 kW	14.3 kW	16.5 kW	18.7 kW	22 kV	
Rated grid voltage					3/N/PI	E, 220 V / 3	80 V, 280 V						
Rated grid frequency	3/N/PE, 220 V / 380 V, 280 V / 400 V 50 Hz / 60 Hz												
	4.6 A /	6.1 A /	7.6 A /	9.1 A /	12.2 A /		15.2 A /	18.2 A /	19.8 A /	22.8 A /	25.8 A /	30.4 A	
Rated grid output current	4.3 A	5.8 A	7.2 A	8.7 A	11.5 A	13.0 A	14 A A	17.3 A	18.8 A	21.7 A	24.6 A	28.9	
Max. output current	4.7 A	6.4 A	7.9 A	9.5 A	12.7 A	14.3 A	15.9 A	19.1 A	20.7 A	23.8 A	27 A	31.8	
Power Factor	>0.99 (0.8 leading - 0.8 lagging)												
ГНDi	<2%												
Efficiency													
Max. efficiency	98.3%			98.5%				98.6%		98.7%			
EU efficiency	97.7%			97.9%				98.0%	98.1%				
Protection													
OC reverse-polarity protection						Ye	es						
Short circuit protection	Yes												
Output over current protection	Yes												
Surge protection	Yes												
Grid monitoring	Yes												
Anti-islanding protection						Ye	es						
Temperature protection						Ye	es						
ntegrated AFCI (DC arc-fault circuit protection)		Yes ⁽¹⁾											
Integrated DC switch						Opti	onal						
General Data													
Dimensions (W*H*D)						310*563	*219 mm						
Weight	17.8 kg								18.	8 kg	20	kg	
Гороlogy	Transformerless								Ü		Ü		
Self consumption (night)	<1 W												
Operating ambient temperature range	-25~+60°C												
Relative humidity	0-100%												
ngress protection						IP	66						
Cooling concept	Natural convection Intelligent redundant fan-cooling									g			
Max. operation altitude	4000 m										0		
Grid connection standard	4000 HI 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)9-1/-2, IEC							
Features								. , ,					
DC connection						MC4 co	nnector						
AC connection	Quick connection plug												
Display	LCD												
Communication	RS485, Optional: Wi-Fi, GPRS												