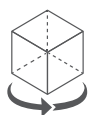


S5-GR3P(3-20)K/BE

Solis Three Phase Inverters

>> Models:

S5-GR3P3K	S5-GR3P12K
S5-GR3P4K	S5-GR3P13K
S5-GR3P5K	S5-GR3P15K
S5-GR3P6K	S5-GR3P17K
S5-GR3P8K	S5-GR3P20K
S5-GR3P9K	S5-GR3P8K-BE
S5-GR3P10K	S5-GR3P10K-BE



360° View



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

DATASHEET

S5-GR3P(3-20)K/BE

Models

3K	4K	5K	6K	8K	9K	10K	12K	13K	15K	17K	20K	8K-BE	10K-BE
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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	12 kW	15 kW
Max. input voltage	1100 V													
Rated voltage	600 V													
Start-up voltage	180 V													
MPPT voltage range	160-1000 V													
Max. input current	16 A / 16 A							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 kW	8 kW	10 kW
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 kVA	8.8 kVA	10 kVA
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 kW	8.8 kW	10 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V												3/N/PE, 230 V / 400 V	
Rated grid frequency	50 Hz													
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	13.7 A / 13.0 A	15.2 A / 14.4 A	18.2 A / 17.3 A	19.8 A / 18.8 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A	11.5 A	14.4 A
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 A	12.7 A	14.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)													
THDi	<2%													

Efficiency

Max. efficiency	98.3%			98.5%			98.6%			98.7%		98.5%	
EU efficiency	97.7%			97.9%			98.0%			98.1%		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	Optional													

General Data

Dimensions (W*H*D)	310*563*219 mm			
Weight	17.8 kg	18.8 kg	20 kg	17.8 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		Natural convection
Max. operation altitude	4000 m			
Grid connection standard	C10/11, G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / D 244 / UNE 206006 / UNE 206007-1, CEI 0-21, NRS 097-2-1, 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.

S5-GR3P(5-10)K-LV/BE

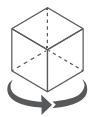
Solis Three Phase Inverters

>> Models:

S5-GR3P5K-LV

S5-GR3P6K-LV

S5-GR3P10K-LV-BE



360° View



Efficient

- Max. efficiency 98.0%
- 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

DATASHEET**S5-GR3P(5-6)K-LV/BE**

Models	5K-LV	6K-LV	10K-LV-BE
Input DC			
Recommended max. PV power	7.5 kW	9 kW	15 kW
Max. input voltage	1100 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	20 A / 20 A		40 A / 40 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	10 kVA
Max. output power	5.5 kW	6.6 kW	10 kW
Rated grid voltage	3/(N)/PE, 208 V / 220 V / 240 V		3/(N)/PE, 230 V
Rated grid frequency	50 Hz		
Rated grid output current	13.1 A	15.7 A	25.1A
Max. output current	14.4 A	16.7 A	25.1A
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	17.8 kg	20 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	C10/11, 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, NRS 097-2-1, 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		

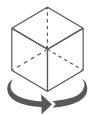
(1) Activation required.

S5-GC30K-BE

Solis Three Phase Inverters

>> Models:

S5-GC30K-BE



360° View



Efficient

- Max. efficiency 98.5%
- String current up to **16A**
- 3 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent redundant fan-cooling

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs
- Supports aluminium wire access to reduce cost

DATASHEET

S5-GC30K-BE

Models

30K-BE

Input DC

Recommended max. PV power	45 kW
Max. input voltage	1100 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	200-1000 V
Max. input current	32 A / 32 A / 32 A
Max. short circuit current	40 A / 40 A / 40 A
MPPT number/Max. input strings number	3/6

Output AC

Rated output power	30 kW
Max. apparent output power	30 kVA
Max. output power	30 kW
Rated grid voltage	3/N/PE, 230 V / 400 V
Rated grid frequency	50 Hz
Rated grid output current	43.3 A
Max. output current	43.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%

Efficiency

Max. efficiency	98.5%
EU efficiency	98.1%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated PID recovery	Optional
Integrated DC switch	Optional

General Data

Dimensions (W*H*D)	647*629*252 mm
Weight	37 kg
Topology	Transformerless
Self-consumption (night)	<1 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	C10/11
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4

Features

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

(1) Activation required.