

S5-GC(100-125)K-AU

Solis Three Phase Grid-Tied Inverters

Efficient

- 10 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 100MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

S5-GC100K-AU

S5-GC110K-AU

S5-GC125K-HV-AU



DATASHEET

S5-GC(100-125)K-AU

Models	100K	110K	125K-HV
Input DC			
Max. input voltage		1100 V	
Rated voltage	600 V		720 V
Start-up voltage		195 V	
MPPT voltage range		180-1000 V	
Max. input current		10*32 A	
Max. short circuit current		10*40 A	
MPPT number/Max. input strings number		10/20	
Output AC			
Rated output power	100 kW	110 kW	125 kW
Rated apparent output power	100 kVA	110 kVA	125 kVA
Max. apparent output power	100 kVA	110 kVA	125 kVA
Max. output power	100 kW	110 kW	125 kW
Rated grid voltage	3/N/PE, 230 V / 400 V		3/PE, 480 V
Rated grid frequency		50 Hz	
Rated grid output current	144.3 A	158.8 A	150.4 A
Max. output current	144.3 A	158.8 A	150.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.6%
Protection			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Surge protection	DC Type II / AC Type II (AC Type I optional)		
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		Yes	
Integrated AC switch		Optional	
General Data			
Dimensions (W*H*D)	1065*567*344.5 mm		
Weight	91 kg		
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm ²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		
Country of manufacture	China		

(1) Activation required.