

S6-GC(100-125)K

Solis Three Phase Grid-Tied Inverters

Efficient

- 10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- String current up to 21A, perfectly match large current bifacial modules

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

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

Economic

- Power line communication (PLC) (optional)
- Night time PID recovery function, increases overall system yield (optional)
- DC side supports "Y" connector

Models:

S6-GC100K

S6-GC110K

S6-GC125K



DATASHEET

S6-GC(100-125)K

Models	100K	110K	125K
Input DC			
Max. input voltage		1100 V	
Rated voltage		600 V	
Start-up voltage		180 V	
MPPT voltage range		160 - 1000 V	
Max. input current		5 × (42 A / 36 A)	
Max. short circuit current		10 × 50 A	
MPPT number / Max. input strings number		10 / 20	
Output AC			
Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	125 kVA
Max. output power	110 kW	121 kW	125kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz		
Rated grid output current	152.0 A / 144.3 A	167.1 A / 158.8 A	189.9 A / 180.4 A
Max. output current	167.1 A	183.8 A	189.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
Efficiency			
Max. efficiency		98.7%	
EU efficiency		98.3%	
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 2.0		Optional	
Integrated PID recovery		Optional	
Integrated DC switch		Yes	
Integrated AC switch		Optional	
General Data			
Dimensions (W × H × D)		1014 × 567 × 345 mm	
Weight		96 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 fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		G99, IEC61727, EN50549-1/2, VDE4110	
Safety / EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	
Features			
DC connection		MC4 connector	
AC connection		OT terminal (max. 240 mm ²)	
Display		LCD	
Communication		RS485, Optional: Wi-Fi, GPRS, PLC	