

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
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz / 60 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 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		