

S6-GC(80-125)K

Solis Three Phase Grid-Tied Inverters

Efficient

- 8/10 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-GC80K / S6-GC100K

S6-GC110K / S6-GC125K



DATASHEET

S6-GC(80-125)K

Models	80K	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	4*(42 A / 36 A)	5*(42 A / 36 A)		
Max. short circuit current	8*50 A	10*50 A		
MPPT number/Max. input strings number	8/16	10/20		
Output AC				
Rated output power	80 kW	100 kW	110 kW	125 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA	125 kVA
Max. output power	88 kW	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	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A	189.9 A / 180.4 A
Max. output current	133.7 A	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 (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)	1014*567*345 mm			
Weight	93 kg	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 redundant 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			

(1) Activation required.