

80-125K

Grid-Tied Inverters

S6-GC(80-125)K

8/10 MPPT | 42A/36A per MPPT

Safety, Intelligent Prevention

- Integrated meteorological equipment, intelligent system inefficiency warning
- AI-based millisecond arc protection (AFCI)
- Real time PV grounding detection and protection
- Arc fault and RSD (Rapid Shutdown) co-operation for improved fire safety (optional)

Innovation, Never Stops

- Master-slave export power control solution, flexible and fast control, support 10 units in parallel
- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller
- The industry's first master-slave export power control+ three-phase unbalanced output control, allocate each phase power on demand, and flexibly compatible with various power grids (optional)

INDIA

t: +91 224 9744 251 (sales) +91 90906 09037 (service)
e: indiasales@ginlong.com inservice@solisinverters.com
w: solisinverters.com/in

DATASHEET

Models	80K	100K	110K	125K	125K-HV
Input DC					
Max. input voltage	1100 V				
Rated voltage	600 V				720 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. current per DC input	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 (@50°C 415Vac)	125kW
Max. apparent output power	88 kVA	110 kVA	121 kVA	125 kVA (@50°C 415Vac)	137.5 kVA
Max. output power	88 kW	110 kW	121 kW	125 kW (@50°C 415Vac)	137.5 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	3/N/PE, 230 V / 400 V		3/N/PE, 230 V / 400 V, 240 V / 415 V	3/PE, 480 V
Rated grid frequency	50 Hz / 60 Hz	50 Hz			
Rated grid output current	121.6 A / 115.5 A	144.3 A	158.8 A	180.4 A	150.4 A
Max. output current	133.7 A	158.8 A	174.6 A	180.4 A	165.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
DC injection current	0.5%In				
Efficiency					
Max. efficiency	98.7%				
EU efficiency	98.3%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
Night SVG function	Yes				
I/V Curve scanning	Yes				
Night SVG function	Yes				
Integrated AFCI 2.0	Yes ①	Optional			
Integrated PID recovery	Optional				
Integrated DC switch	Yes				
Integrated AC switch	Optional				
Integrated EPM function (< 10 device)	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 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: S5-WiFi-ST, S3-GPRS-ST, PLC				

① Activation required.