S5-GC(50-70)K

Solis Three Phase Inverters



Model:

400V: S5-GC50K S5-GC60K

Efficient

- ▶ Max. efficiency 98.7%
- String current up to 16A
- 5/6 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)

Smart

- ▶ Night SVG function
- Supports export power control
- ▶ Intelligent string monitoring, smart I-V curve scan
- Scan to register on SolisCloud, supports remote upgrade and control

480V: S5-GC60K-HV S5-GC70K-HV



- ▶ IP66, C5 Anti-Corrosion Level
- Intelligent redundant fan-cooling
- Globally recognised branded componentry for longer life
- ► AFCI protection, proactively reduces fire risk

Economic

- Supports PLC/GPRS/WiFi communication with less wiring and reduced installation costs
- DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost
- ▶ 10/12 string inputs allow for 150%+ DC oversizing



Datasheet				
Model Name	S5-GC50K	S5-GC60K	S5-GC60K-HV	S5-GC70K-HV
Input DC				
Recommended max. PV power	66.5kW	79.8kW	79.8kW	93.1kW
Max. input voltage		110	0 V	
Rated voltage	60	00 V	72	0 V
Start-up voltage	195 V			
IPPT voltage range	180-1000 V			
Max. input current	5*32 A	6*32 A		
/ax. short circuit current	5*40 A	6*40 A		
MPPT number/Max. input strings number	5/10	6/12		
Dutput AC				
Rated output power	50 kW	60 kW	60 kW	70 kW
Rated apparent output power	50 kVA	60 kVA	60 kVA	70 kVA
lax. apparent output power	50 kVA	60 kVA	60 kVA	70 kVA
lax. output power	50 kW	60 kW	60 kW	70 kW
Rated grid voltage	3/N/PE, 23	30 V / 400 V	3/PE,	480 V
Rated grid frequency		50	Hz	
Rated grid current	83.6 A	100.3 A	79.4 A	92.6 A
lax. output current	83.6 A	100.3 A	79.4 A	92.6 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
HDi	<3%			
fficiency				
lax. efficiency		98.7	7%	
CEC efficiency	98	.3%	98	4%
Protection				
OC reverse-polarity protection		Ye	S	
hort circuit protection	Yes			
Output over current protection	Yes			
Surge protection	DC Type II / AC Type II			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
emperature protection	Yes			
Strings monitoring	Yes			
/V Curve scanning	Yes			
ntegrated AFCI(DC ari-fault circuit protection)	Yes ⁽¹⁾			
ntegrated PID recovery	Optional ⁽²⁾			
ntegrated DC switch		Optional (P	V2 Switch)	
General Data				
Dimensions (W*H*D)	691*578*338 mm			
Veight	54.5 kg			
Topology	Transformerless			
Self consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
ngress protection	IP66			
cooling concept	Intelligent redundant fan-cooling			
lax. operation altitude				
rid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530 IEC 62109-1/-2, IEC 61000-6-2/-4			
afety/EMC standard		IEC 62109-1/-2, I	EC 01000-0-2/-4	
eatures				
OC connection	MC4 connector			
C connection	OT terminal (max. 70 mm ²)			
Display	LCD, Capacitive touch buttons			
Communication	RS485, USB, Optional: Wi-Fi, GPRS, PLC ⁽³⁾			
Country of manufacture	China			

(1) Activation required.

(2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function. (3) The PLC communication can not work with RS485 communication at the same time. If already installed the PLC CCO for PLC communication on site, then the RS485 ports on the inverters can not be used to connect another monitoring/control device.