

S5-GC(25-50)K-AU

Solis Three Phase Inverters



Model:

400V: S5-GC25K-AU S5-GC30K-AU S5-GC33K-AU
S5-GC36K-AU S5-GC40K-AU

480V: S5-GC40K-HV-AU
S5-GC50K-HV-AU

Efficient

- ▶ Max. efficiency 98.8%
- ▶ String current up to **16A**
- ▶ 4 MPPT design, supports multiple orientation system
- ▶ Support night time PID recovery function, increase overall system yield (optional)
- ▶ Wide voltage range and low startup voltage

Smart

- ▶ Support export power control
- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Support RS485, WiFi, GPRS
- ▶ Scan to register on SolisCloud, support remote upgrade and control

Safe

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

Economic

- ▶ Support GPRS/WiFi communication with less wiring/construction cost
- ▶ > 130% DC/AC ratio
- ▶ Support large module with lower installation cost
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	S5-GC25K-AU	S5-GC30K-AU	S5-GC33K-AU	S5-GC36K-AU	S5-GC40K-AU	S5-GC40K-HV-AU	S5-GC50K-HV-AU
Input DC							
Recommended max. PV power	33.3 kW	39.9 kW	43.9 kW	47.9 kW	53.2 kW	53.2 kW	66.5 kW
Max. input voltage	1100 V						
Rated voltage	600 V						
Start-up voltage	180 V						
MPPT voltage range	200-1000 V						
Max. input current	4*32 A						
Max. short circuit current	4*40 A						
MPPT number/Max. input strings number	4/8						
Output AC							
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Rated apparent output power	25 kVA	30 kVA	33 kVA	36 kVA	40 kVA	40 kVA	50 kVA
Max. apparent output power	25 kVA	30 kVA	33 kVA	36 kVA	40 kVA	40 kVA	50 kVA
Max. output power	25 kW	30 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Rated grid voltage	3/N/PE, 230 V / 400 V					3/PE, 480 V	
Rated grid frequency	50 Hz						
Rated grid current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A	53.0 A	66.2 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A	53.0 A	66.2 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
Efficiency							
Max. efficiency	98.5%		98.6%		98.7%		98.8%
CEC efficiency	98.1%		98.2%		98.3%		98.4%
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 PID recovery	Optional						
Integrated DC switch	Yes (PV2 Switch)						
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾						
General Data							
Dimensions (W*H*D)	647*629*252 mm						
Weight	37 kg						
Topology	Transformerless						
Self consumption (night)	<1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP65						
Cooling concept	Intelligent redundant fan-cooling						
Max. operation altitude	4000 m						
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530						
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	OT terminal						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						
Country of manufacture	China						

(1) Activation required.