

S5-GC(25-50)K-AU

Solis Three Phase Inverters



360 degree

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 kW	39 kW	43 kW	47 kW	52 kW	52 kW	65 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*50 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 output apparent 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	36.1 A	43.3 A	47.6 A	52.0 A	57.7 A	48.1 A	60.1 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			
Intergarated DC switch				Optional (PV2 Switch)			
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			