



GINLONG TECHNOLOGIES CO.,LTD.

## S5-GC(40)K

# Solis Three Phase Grid-Tied Inverters

### Efficient

- Max. efficiency 98.8%
- String current up to 16A
- 3/4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

### Smart

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

### Safe

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

### Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

### Models:

S5-GC25K / S5-GC30K

S5-GC33K / S5-GC40K

S5-GC40K-HV / S5-GC50K-HV



360° View



# DATASHEET

## S5-GC(40)K

Models	40K
<b>Input DC</b>	
Recommended max. PV power	60 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
<b>Output AC</b>	
Rated output power	40 kW
Max. apparent output power	44 kVA
Max. output power	44 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	60.8 A / 57.7 A
Max. output current	66.9 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%
DC injection current	<0.5% In
<b>Efficiency</b>	
Max. efficiency	98.7%
EU efficiency	98.3%
<b>Protection</b>	
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 <sup>(1)</sup>
Integrated PID recovery	Optional
Integrated DC switch	Yes
<b>General Data</b>	
Dimensions (W*H*D)	647*629*252 mm
Weight	42.1 kg
Topology	Transformerless
Self-consumption (night)	<1 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Noise emission (typical)	≤60 dB(A)
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4
<b>Features</b>	
DC connection	MC4 connector
AC connection	Screw type terminal block
Display	LCD
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST

(1) Activation required.