

S6-GC3P(40-60)K-ND

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.7%
- String current up to 20A
- > 150% DC/AC ratio, supports high power modules
- Automatic voltage stabilization technology in weak grid conditions
- AFCI protection, proactively reduces fire risk
- Supports RS485/ WiFi/GPRS/4G
- Scan to register on SolisCloud, supports remote upgrade and control

Models:

S6-GC3P40K04-NV-ND

S6-GC3P50K04-NV-ND

S6-GC3P60K05-NV-ND

S6-GC3P50K04-HV-ND

S6-GC3P60K05-HV-ND



DATASHEET

S6-GC3P(40-60)K-ND

Models	40K04-NV	50K04-NV	60K05-NV	50K04-HV	60K05-HV
Input DC					
Max. input voltage	1100 V				
Rated voltage	600 V				
Start-up voltage	180 V				
MPPT voltage range	180-1000 V				
Max. input current	4*40 A		5*40 A	4*40 A	5*40 A
Max. short circuit current	4*50 A		5*50 A	4*50 A	5*50 A
MPPT number/Max. input strings number	4/8		5/10	4/8	5/10
Output AC					
Rated output power	40 kW	50 kW	60 kW	50 kW	60 kW
Max. apparent output power	44 kVA	55 kVA	66 kVA	55 kVA	66 kVA
Max. output power	44 kW	55 kW	66 kW	55 kW	66 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			3/PE, 480 V	
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	60.8 A / 57.7 A	76.0 A / 72.2 A	91.2 A / 86.6 A	60.1 A	72.2 A
Max. output current	66.9 A	83.6 A	100.3 A	66.2 A	79.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
Efficiency					
Max. efficiency	98.6%			98.7%	
EU efficiency	98.1%				
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 AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Integrated PID recovery	Optional				
Integrated DC switch	Yes				
General Data					
Dimensions (W*H*D)	515*735*290 mm				
Weight	TBD				
Topology	Transformerless				
Self-consumption (night)	<1 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP66				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 connector				
AC connection	OT terminal				
Display	LED, Bluetooth + APP				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.