

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				720 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	40 kVA	50 kVA	60 kVA	50 kVA	60 kVA
Max. output power	40 kW	50 kW	60 kW	50 kW	60 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	60.8 A / 57.7 A	76.0 A / 72.2 A	91.2 A / 86.6 A	60.1 A	72.2 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		
Multi peak scan			Yes		
Integrated AFCI 2.0			Optional		
Integrated PID recovery			Optional		
Integrated DC switch			Yes		
General Data					
Dimensions (W × H × D)			515 × 672 × 287.5 mm		
Weight	34.9 kg	35.8 kg	TBD	34.4 kg	37.4 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 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 indicator & Bluetooth + APP				
Communication	RS485, Optional: Wi-Fi, GPRS				