

S6-GC3P(40-60)K-NV-ND

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.6%
- 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



DATASHEET

S6-GC3P(40-60)K-NV-ND

Models	40K04-NV		50K04-NV	60K05-NV
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	
Max. short circuit current	4 × 50 A		5 × 50 A	
MPPT number / Max. input strings number	4 / 8		5 / 10	
Output AC				
Rated output power	40 kW	50 kW	60 kW	
Max. apparent output power	40 kVA	50 kVA	60 kVA	
Max. output power	40 kW	50 kW	60 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	76.0 A / 72.2 A	91.2 A / 86.6 A	
Max. output current	60.8 A / 57.7 A	76.0 A / 72.2 A	91.2 A / 86.6 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Efficiency				
Max. efficiency	98.6%			
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	38.6 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			