



40-60K

Grid-Tied Inverters

S6-GC3P(40-60)K-ND

4/5 MPPT | 42A per MPPT



- 4/5 MPPT, max. efficiency 98.7%
- AFCI protection, proactively reduces fire risk
- String current up to 21A
- Intelligent string monitoring, smart I-V curve scan
- > 150% DC/AC ratio
- Dual independent RS485 ports, supporting communication with multiple devices
- Nighttime PID recovery function (optional)

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DATASHEET

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 × 42 A		5 × 42 A	4 × 42 A	5 × 42 A
Max. short circuit current	4 × 52.5 A		5 × 52.5 A	4 × 52.5 A	5 × 52.5 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%				
DC injection current	0.5% In				
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				
Insulation resistance monitoring	Yes				
Residual current detection	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)	508 × 612 × 288 mm				
Weight	34.9 kg	35.8 kg	38.6 kg	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)	≤ 55 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: S3-WiFi-ST, S3-GRPS-ST				