

40-60K

Grid-Tied Inverters

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

4/5 MPPT | 42A per MPPT

- 4/5 MPPT, max. efficiency 98.6%
- 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	50K04	60K05
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 × 42 A		5 × 42 A
Max. short circuit current	4 × 52.5 A		5 × 52.5 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)	508 × 612 × 288 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)	≤ 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: Wi-Fi, GPRS		