



Grid-Tied Inverters

S6-GC3P(25-40)K03-ND

3 MPPT | 42A per MPPT

- String current up to 21A
- Intelligent string monitoring, smart I-V curve scan
- > 170% DC/AC ratio
- AFCI protection, proactively reduces fire risk
- Dual independent RS485 ports, supporting communication with multiple devices
- 24-hour load consumption monitoring

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DATASHEET

S6-GC3P(25-40)K03-ND

Models	25K03-NV	30K03-NV	33K03-NV	36K03-NV	40K03-HV
Input DC					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 kW
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	42 A / 42 A / 42 A				
Max. short circuit current	52.5 A / 52.5 A / 52.5 A				
MPPT number / Max. input strings number	3 / 6				
Output AC					
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. apparent output power	25 kVA	30 kVA	33 kVA	36 kVA	40 kVA
Max. output power	25 kW	30 kW	33 kW	36 kW	40 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	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	48.1 A
Max. output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	48.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
Efficiency					
Max. efficiency	98.5%				98.6%
EU efficiency	98.0%				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 DC switch	Yes				
General Data					
Dimensions (W × H × D)	355 × 625 × 250 mm				
Weight	25.3 kg	25.5 kg	26.5 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 digital display & Bluetooth + APP				
Communication	RS485, Optional: Wi-Fi, GPRS				