



solis

20th
ANNIVERSARY



Grid-Tied Inverters

S6-GC3P(15-20)K03-LV-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(15-20)K03-LV-ND

Models	15K	20K
Input DC		
Recommended max. PV power	22.5 kW	30 kW
Max. input voltage	1100 V	
Rated voltage	360 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	15 kW	20 kW
Max. apparent output power	15 kVA	20 kVA
Max. output power	15 kW	20 kW
Rated grid voltage	3/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	39.4 A / 37.7 A	52.5 A / 50.2 A
Max. output current	39.4 A / 37.7 A	52.5 A / 50.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	97.8%	
EU efficiency	97.3%	
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	25.5 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	