



20-30K

Grid-Tied Inverters

S6-GC3P(20-30)K04-NV-ND-R

4 MPPT | 42A per MPPT

- 4 MPPTs with 8 strings, replace an existing inverter with “like-for-like”
- 50mm² maximum cable size for AC terminal, interchangeable by existing cabling
- Dual independent RS485 ports, support communication with multiple devices
- Grid adaptive algorithm, work normally under weak power grid conditions
- Light weight and slim body, easy to replacement
- IP66, C5 Anti-Corrosion Level, more adaptability to harsh environment

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DATASHEET

Models	20K	27.6K	30K
Input DC			
Recommended max. PV power	30 kW	41.4 kW	45 kW
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 ^①	
Max. short circuit current		4 × 52.5 A	
MPPT number / Max. input strings number		4 / 8	
Output AC			
Rated output power	20 kW	27.6 kW	30 kW
Max. apparent output power	20 kVA	27.6 kVA	30 kVA
Max. output power	20 kW	27.6 kW	30 kW
Rated grid voltage		3/N/PE, 230 V / 400 V	
Rated grid frequency		50 Hz	
Rated grid output current	29.0 A	40.0 A	43.5 A
Max. output current	29.0 A	40.0 A	43.5 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	
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	
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	

① Max. input current per MPPT can be 42A, but Total DC input current will be limited to 88A.