

80-100K

Grid-Tied Inverters

S6-GC3P(80-100)K07-LV-ND

7 MPPT | 54A per MPPT

Safety, Intelligent Prevention

- Integrated meteorological equipment, intelligent system inefficiency warning
- AI-based millisecond arc protection (AFCI)
- Real time PV grounding detection and protection
- Arc fault and RSD (Rapid Shutdown) co-operation for improved fire safety (optional)
- Intelligent AC and DC terminal temperature sensing detection

Innovation, Never Stops

- Primary/secondary export power control solution, flexible and fast control, support 10 units in parallel
- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller
- The industry's first primary/secondary export power control+ three-phase unbalanced output control, allocate each phase power on demand, and flexibly compatible with various power grids (optional)

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DATASHEET

Models	80K	100K
Input DC		
Max. input voltage	800 V	
Rated voltage	450 V	
Start-up voltage	180 V	
MPPT voltage range	160 - 800 V	
Max. input current	7 × 54 A	
Max. current per DC input	54 A	
Max. short circuit current	7 × 75 A	
MPPT number / Max. input strings number	7 / 21	
Output AC		
Rated output power	80 kW	100 kW ①
Max. apparent output power	88 kVA	100 kVA
Max. output power	88 kW	100 kW
Rated grid voltage	3/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	209.9 A	251 A
Max. output current	230.9 A	251 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	98.8%	
EU efficiency	98.3%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II (AC Type I Optional)	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Night SVG function	Yes	
Integrated AFCI 2.0	Optional	
Integrated PID recovery	Optional	
Integrated DC switch	Yes	
3-phase unbalanced output	Optional	
General Data		
Dimensions (W × H × D)	1035.5 × 869 × 396 mm	
Weight	105 kg	
Topology	Transformerless	
Self-consumption (night)	< 2 W	
Operating ambient temperature range	-30 ~ +60°C	
Relative humidity	0 - 100%	
Ingress protection	IP66	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61727L, IEC 62116, C10/11, VDE 4105	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC60947-2, IEC/EN 61000-6-2/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 400 mm^2)	
Display	LED indicator & Bluetooth + APP	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	

① 95.6kW for 220V.