



100-125K

Grid-Tied Inverters

S6-GC(100-125)K

10 MPPT | 42A/36A 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)



Innovation, Never Stops

- Master-slave 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 master-slave 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	100K	110K	125K
Input DC			
Max. input voltage		1100 V	
Rated voltage		600 V	
Start-up voltage		180 V	
MPPT voltage range		160 - 1000 V	
Max. input current		5 × (42 A / 36 A)	
Max. current per DC input		5 × (42 A / 36 A)	
Max. short circuit current		10 × 50 A	
MPPT number / Max. input strings number		10 / 20	
Output AC			
Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	125 kVA
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	152.0 A / 144.3 A	167.1 A / 158.8 A	189.9 A / 180.4 A
Max. output current	167.1 A	183.8 A	189.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
Efficiency			
Max. efficiency	98.7%		
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		
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	Yes		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
Integrated EPM function (≤ 10 units)	Yes		
3-phase unbalanced output	Optional		
Generator matching	Yes (1 generator) Optional (2-3 generators need power identification box)		
General Data			
Dimensions (W × H × D)	1014 × 567 × 345 mm		
Weight	96 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	G99, IEC61727, EN50549-1/2, VDE4110		
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 240 mm ²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		