



80-125K

Grid-Tied Inverters

S6-GC(80-125)K

8/10 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	80K	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	4 × (42 A / 36 A)	5 × (42 A / 36 A)		
Max. current per DC input	4 × (42 A / 36 A)	5 × (42 A / 36 A)		
Max. short circuit current	8 × 50 A	10 × 50 A		
MPPT number / Max. input strings number	8 / 16	10 / 20		
Output AC				
Rated output power	80 kW	100 kW	110 kW	125 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA	125 kVA
Max. output power	88 kW	110 kW	121 kW	125 kW
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	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A	189.9 A / 180.4 A
Max. output current	133.7 A / 127 A	167.1 A / 158.8 A	183.8 A / 174.7 A	189.9 A / 180.4 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 device)	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	93 kg	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			