



## 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
<b>Input DC</b>				
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		
<b>Output AC</b>				
Rated output power	80 kW	100 kW	110 kW	125 kW
Max. apparent output power	88 kVA	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	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	167.1 A	183.8 A	189.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
<b>Efficiency</b>				
Max. efficiency	98.7%			
EU efficiency	98.3%			
<b>Protection</b>				
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)			
<b>General Data</b>				
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			
<b>Features</b>				
DC connection	MC4 connector			
AC connection	OT terminal (max. 240 mm <sup>2</sup> )			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS, PLC			