



99.9K

Grid-Tied Inverters

S6-GC99.9K

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

- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller



DATASHEET

Models	99.9K
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	99.9 kW
Max. apparent output power	99.9 kVA
Max. output power	99.9 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	151.8 A / 144.2 A
Max. output current	151.8 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
Night SVG function	Yes
I/V Curve scanning	Yes
Integrated AFCI 2.0	Optional
Integrated PID recovery	Optional
Integrated DC switch	Yes
Integrated AC switch	Optional
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
Features	
DC connection	MC4 connector
AC connection	OT terminal (max. 240 mm ²)
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, PLC