



Grid-Tied Inverters

S5-GC(100-125)K-AU

10 MPPT | 32A per MPPT



Efficient

- 10 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 100MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules



Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Nighttime PID recovery function (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate



Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation



Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

AUSTRALIA

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DATASHEET

S5-GC(100-125)K-AU

Models	100K	110K	125K-HV
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		720 V
Start-up voltage	195 V		
MPPT voltage range	180 - 1000 V		
Max. input current	10 × 32 A		
Max. short circuit current	10 × 40 A		
MPPT number / Max. input strings number	10 / 20		
Output AC			
Rated output power	100 kW	110 kW	125 kW
Rated apparent output power	100 kVA	110 kVA	125 kVA
Max. apparent output power	100 kVA	110 kVA	125 kVA
Max. output power	100 kW	110 kW	125 kW
Rated grid voltage	3/N/PE, 230 V / 400 V		3/PE, 480 V
Rated grid frequency	50 Hz		
Rated grid output current	144.3 A	158.8 A	150.4 A
Max. output current	144.3 A	158.8 A	150.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.6%
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		
Integrated AFCI 2.0	Optional		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W × H × D)	1065 × 567 × 344.5 mm		
Weight	91 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	AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		
Country of manufacture	China		