

Beta Series S5-GC 100K

THREE PHASE INVERTER 5G



Features

- Efficient**
 10 MPPTs, max. efficiency 99.0%.
 > 150% DC/AC ratio.
 High power tracking density 90MPPT/MW.
 String current up to **16A**, perfectly match large current/bifacial modules.
- Smart**
 Night SVG function.
 Intelligent string monitoring. Smart I-V curve scan.
 Remote firmware upgrade with simple operation.
- Safe**
 AFCI protection, proactively reduces fire risk.
 Built-in PID recovery for better module performance (optional).
 Type I SPD for AC (optional).
 Overvoltage load reduction and leakage current suppression technology, low failure rate.
 Globally recognised branded componentry for longer life.
- Economic**
 Power line communication (PLC) (optional).
 Support "Y" type connection in DC side.
 Supports aluminium wire access to reduce cost.

Technical Specifications

INPUT DC	
Maximum Input Voltage	1100V
Rated Voltage	600V
Start-up Voltage	195V
MPPT Voltage Range	180-1000V
Maximum Input Current	10*32A
Maximum Short Circuit Current	10*50A
MPPT Number/Max. Input Strings Number	10/20
OUTPUT AC	
Rated Output Power	100kW
Maximum Apparent Output Power	110kVA
Maximum Output Power	110kW
Rated Grid Voltage	3/N/PE, 220V/380V, 230V/400V
Rated Grid Frequency	50/60Hz
Rated Grid Output Current	152.0A/144.3A
Maximum Output Current	167.1A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
EFFICIENCY	
Maximum Efficiency	98.7%
EU Efficiency	98.3%

Technical Specifications

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
Strings Monitoring	Yes
I/V Curve Scanning	Yes
Integrated PID Recovery	Optional
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated DC Switch	Yes
Integrated AC Switch	Optional
GENERAL DATA	
Dimensions (W*H*D)	1065*567*344.5 mm
Weight	91kg
Topology	Transformerless
Self Consumption (Night)	< 2W
Operating Ambient Temperature Range	-25 ~ +60°C
Relative Humidity	0-100%
Ingress Protection	IP66
Cooling Concept	Intelligent redundant fan-cooling
Maximum Operation Altitude	4000m
Grid Connection Standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC61727, DEWA
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
FEATURES	
DC Connection	MC4 connector
AC Connection	OT terminal (max. 185 mm ²)
Display	LCD
Communication	RS-485, Optional: Wi-Fi, GPRS, PLC

(1) Activation required.

Product specifications are subject to change without further notice.

