# SG125CX-P2

## Multi-MPPT String Inverter for 1000 Vdc System

### **Preliminary**



### 

- 12 MPPTs with max. efficiency 98.5%
- DC 15A current input, compatible with over 500W+ PV module
- Dynamic shading optimization mode

# LOWER INVESTMENT

- Compatible max. 240mm<sup>2</sup> Al AC cables
- Drawer-style cable sealing plate support AC cable pre-assembly

### SMART O&M

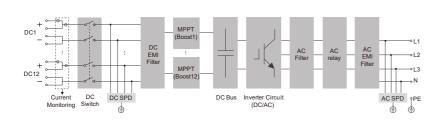
- Key component diagnosis and protection
- Smart IV Curve Diagnosis
- Grid fault record function, easy for remote O&M

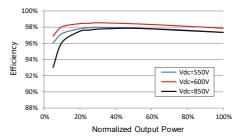
## PROVEN SAFETY

- IP66 protection and C5 Anti-corrosion
- DC Type I+II SPD, AC Type II SPD
- Support AFCI 2.0 function

### **CIRCUIT DIAGRAM**

### **EFFICIENCY CURVE**









Type designation	SG125CX-P2
Input (DC)	
Recommended max. PV input power	174 kW
Max. PV input voltage	1100 ∨
Min. operating PV voltage / Start-up input voltage	180 V / 200 V
Rated PV input voltage	600 V
MPP voltage range	180 – 1000 V
No. of independent MPP inputs	12
No. of PV strings per MPPT	2
Max. PV input current	360 A (30 A*12)
Max. DC short-circuit current	480 A (40 A*12)
Output (AC)	
Max. AC Output power	125 kVA
Rated AC output apparent power	125 kVA
Max. AC output current	181.1 A
Rated AC voltage	3 / N / PE, 230 / 400 V
AC voltage range	320 – 480V
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
Harmonic (THD)	< 3 % (at rated power)
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3/3-PE
Efficiency	37312
Max. efficiency	98.50 %
European efficiency	98.30 %
Protection	30.30 //
DC reverse polarity protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch	Yes
PV string monitoring	Yes
Q at night function	Yes
PID recovery function	Yes
Arc fault circuit interrupter (AFCI)	Yes
Surge protection	DC Type I + II / AC Type II
General Data	Be type i ii / Ae type ii
Dimensions (W*H*D)	1019*793*360 mm
Weight	87 kg
Topology	Transformerless
Degree of protection	IP66
Night power consumption	< 4 W
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating)
Allowable relative humidity range	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Optional: WLAN, Ethernet
DC connection type	Evo2 (Max. 6 mm²)
AC connection type	OT / DT terminal (Max. 240 mm²)
• •	Q at night function, LVRT, HVRT, active & reactive power control and
Grid Support	power ramp rate control
Country of manufacture	China











