SG110CX New



Multi-MPPT String Inverter for 1000 Vdc System





HIGH YIELD

- 9 MPPTs with max. efficiency 98.7%
- · Compatible with bifacial module
- Built-in PID recovery function optional



LOW COST

- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Q at night function



EASY O&M

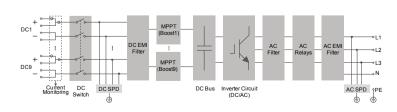
- Touch free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis
- Fuse free design with smart string current monitoring



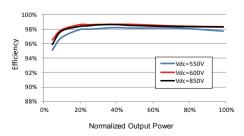
PROVEN SAFETY

- IP66 and C5 protection
- Type II SPD for both DC and AC
- · Compliant with global safety and grid code

CIRCUIT DIAGRAM



EFFICIENCY CURVE





Type designation	SG110CX
Input (DC)	
Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	200 V / 250 V
Nominal PV input voltage	585 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	550V – 850 V
No. of independent MPP inputs	9
Max. number of PV strings per MPPT	2
Max. PV input current	26 A * 9
Max. current for input connector	30 A
Max. DC short-circuit current	40 A * 9
Output (AC)	
AC output power	110 kVA @ 45 ℃ / 100 kVA @ 50 ℃
Max. AC output current	158.8 A
Nominal AC voltage	3 / N / PE, 400 V
AC voltage range	320 – 460 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3/3
Efficiency	
Max. efficiency	98.7 %
Euro. efficiency	98.5 %
Protection	36.3 //
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch / AC switch	Yes / No
PV String current monitoring	Yes
Q at night function	Yes
PID recovery function	Optional
Overvoltage protection	DC Type II / AC Type II
General Data	Вс туре п Ас туре п
Dimensions (W*H*D)	1051*660*362.5 mm
Weight	85 kg
solation method	Transformerless
ngress protection rating	IP66
Night power consumption	< 2W
Operating ambient temperature range	-30 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
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Display	LED, Bluetooth+APP
Communication	RS485 / Optional: Wi-Fi, Ethernet
OC connection type	MC4 (Max. 6 mm²)
AC connection type	OT terminal (Max. 240 mm²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018,
	VDE-AR-N 4120:2018, IEC 61000-6-3, EN 50438, AS/NZS 4777.2:2015, CEI 0-2 VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power
	ramp rate control

