

SG100/110CX-P2



HIGH YIELD

- 12 MPPTs with max. efficiency 98.5%
- Compatible with over 500W+ PV module
- Dynamic shading optimization mode



SMART O&M

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



LOWER INVESTMENT

- Compatible max. 240mm² Al AC cables
- Drawer-style cable sealing plate support AC cable pre-assembly



PROVEN SAFETY

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



Type designation	SG100CX-P2	SG110CX-P2
Input (DC)		
Recommended max. PV input power	140 kWp	154 kWp
Max. PV input voltage ¹⁾		1100 V
Min. PV input voltage / Startup input voltage		180 V / 200 V
Rated PV input voltage		600 V
MPPT voltage range ²⁾		180 V - 1000 V
No. of independent MPP inputs		12
No. of PV strings per MPPT		2
Max. PV input current		30 A * 12
Max. DC short-circuit current		50 A * 12
Max. current for DC connector		30 A
Output (AC)		
Rated AC output power	99.99 kW	110 kW
Max. AC output apparent power	99.99 kVA	110 kVA
Rated AC output apparent power	99.99 kVA	110 kVA
Max. AC output current	144.3 A	158.8 A
Rated AC output current	144.3 A	158.8 A
Rated AC voltage		3 / N / PE, 230 V / 400 V
AC voltage range		320 V – 480 V
Rated grid frequency		50 / 60 Hz
Grid frequency range		45 Hz – 55 Hz
Harmonic (THD)		< 3 % (at rated power)
Power factor at rated power / Adjustable power factor		> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / AC connection		3 / 3-PE
Efficiency		
Max. efficiency / European efficiency		98.5 % / 98.3 %
Protection & function		
Grid monitoring		Yes
DC reverse polarity protection		Yes
AC short-circuit protection		Yes
Leakage current protection		Yes
Surge protection		DC type I+II / AC type II
Ground fault monitoring		Yes
DC switch		Yes
PV string current monitoring		Yes
Arc fault circuit interrupter (AFCI)		Yes
PID recovery function		Yes
General data		
Dimensions (W * H * D)		1020 mm * 795 mm * 360 mm
Weight		93 kg
Mounting method		Wall-mounting bracket
Topology		Transformerless
Degree of protection		IP66
Protective class		Protective class I
Overvoltage category		III[AC]; II[PV]
Active anti-islanding method		Frequency shift
Night power consumption		< 5 W
Corrosion		C5
Operating ambient temperature range		- 30 °C ~ 60 °C
Allowable relative humidity range (non-condensing)		0 – 100 %
Cooling method		Smart forced air cooling
Max. operating altitude		4000 m
Display		LED, Bluetooth + APP
Communication		RS485 / WLAN (optional) / Ethernet (optional)
DC connection type		Evo2 (Max. 6 mm ²)
AC connection type		OT / DT terminal (Max. 240 mm ²)
AC cable specification		Outside diameter 30 ~ 60 mm
Grid compliance		IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, AS/NZS 4777.2:2020, IEC 63027
Grid support		Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control
Country of manufacture		China

¹⁾ Input voltage exceeding the MPPT operating voltage range triggers inverter protection

²⁾ Please refer to the user manual for the full load MPPT voltage range

