

SG100/110CX-P2

AU



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
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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 mm²)	
AC connection type	OT / DT terminal (Max. 240 mm²)	
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

