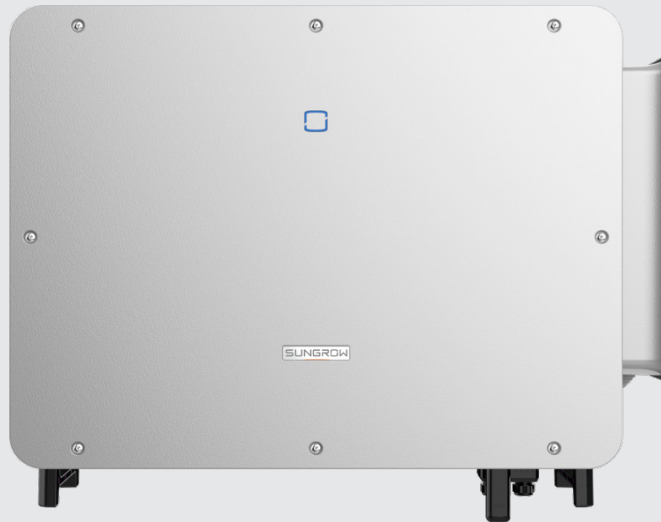


# SG110CX-P2

Multi-MPPT String Inverter for 1000 Vdc System

AU



## HIGH YIELD

- 12 MPPTs with max. efficiency 98.4%
- DC 30A MPPT current input, compatible with over 600W+ PV module

## SMART O&M

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

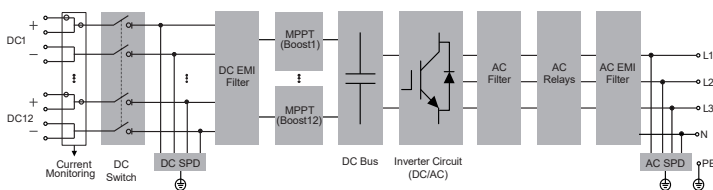
## LOWER INVESTMENT

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

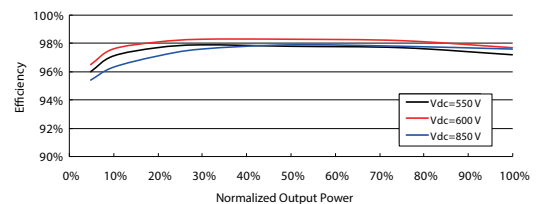
## PROVEN SAFETY

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

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE



Type designation	SG110CX-P2
<b>Input (DC)</b>	
Recommended max. PV input power	154 kW
Max. PV input voltage	1100 V
Min. PV input voltage / Startup 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/30 A/30 A/30 A/30 A/30 A/30 A/30 A/30 A/30 A/30 A/30 A)
Max. DC short-circuit current	480 A (40 A/40 A/40 A/40 A/40 A/40 A/40 A/40 A/40 A/40 A/40 A/40 A)
<b>Output (AC)</b>	
Rated AC output power	110 kW
Max. AC output apparent power	110 kVA
Rated AC output apparent power	110 kVA
Max. AC output current	167.1 A
Rated AC voltage	3 / N / PE, AC 230 / 400 V
AC voltage range	320 – 480 V
Rated grid frequency / Grid frequency range	50 Hz / 45 – 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 / connection phases	3 / 3-N-PE
<b>Efficiency</b>	
Max. efficiency / European efficiency	98.4 % / 98.1 %
<b>Protection &amp; Function</b>	
Grid monitoring	Yes
DC reverse polarity protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Surge protection	DC Type II / AC Type II
Ground fault monitoring	Yes
DC switch	Yes
PV String current monitoring	Yes
PID recovery function	Yes
DC Terminal Protective Cover	Yes
Arc fault circuit interrupter (AFCI)	Yes
Communication dongle (EyeM4)	Yes
<b>General Data</b>	
Dimensions (W*H*D)	1019*793*360 mm
Weight	87 kg
Topology	Transformerless
Degree of protection	IP66
Corrosion	C5
Night power consumption	≤4 W
Operating ambient temperature range	-30 to 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 / Ethernet, Optional: 4G
DC connection type	MC4 -Evo2 (Max. 6 mm <sup>2</sup> )
AC connection type	OT or DT terminal (Max.240 mm <sup>2</sup> )
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, AS/NZS 4777.2:2020
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control
Country of manufacture	China

