



### HIGH YIELD

- 3MPPTs with high efficiency
- Compatible with bifacial module
- Built-in PID recovery function

### LOW COST

- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Cable free communication with optional Wi-Fi

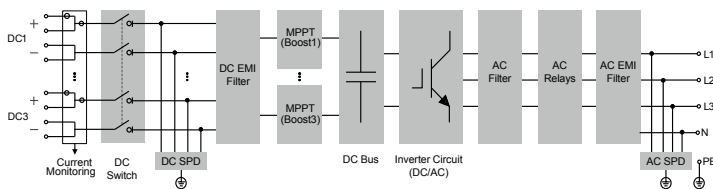
### SMART O&M

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

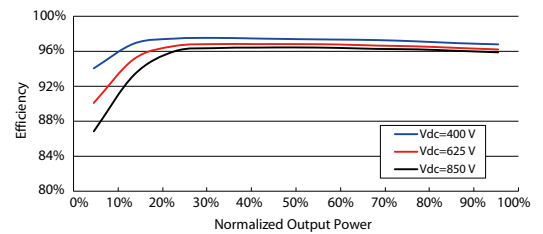
### PROVEN SAFETY

- IP66 and C5 anti-corrosion grade
- Type II SPD for both DC and AC
- Satisfied global safety and grid code

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE



Type designation	SG25CX-SA
<b>Input (DC)</b>	
Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	200 V / 250 V
Nominal PV input voltage	400 V
MPP voltage range	200 V – 1000 V
MPP voltage range for nominal power	400 V – 850 V
No. of independent MPP inputs	3
Max. number of PV strings per MPPT	2
Max. PV input current	78 A
Max. DC short-circuit current	120 A
<b>Output (AC)</b>	
AC output power	27.5 kVA @ 35 °C / 25 kVA @ 45 °C
Max. AC output current	72.2 A
Nominal AC voltage	3 / N / PE, 127 / 220 V
AC voltage range	165 – 290 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 % I <sub>n</sub>
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3 / 3
<b>Efficiency</b>	
Max. efficiency / Euro. Efficiency	97.5% / 97.2%
<b>Protection</b>	
DC reverse connection protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch	Yes
PV String current monitoring	Yes
PID recovery function	Yes
Overvoltage protection	DC Type II / AC Type II
<b>General Data</b>	
Dimensions (W*H*D)	740*645*310 mm
Weight	54 kg
Isolation method	Transformerless
Ingress protection rating	IP66
Corrosivity class	C5
Night power consumption	≤ 2 W
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Wi-Fi, optional: Ethernet
DC connection type	MC4 (Max. 6 mm <sup>2</sup> )
AC connection type	OT or DT terminal (35 – 70 mm <sup>2</sup> )
AC Cable specification	Outside diameter 25 – 50 mm
Compliance	IEC 62109, IEC 61727, IEC 62116
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control

\*: Only compatible with Sungrow logger and iSolarCloud