



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

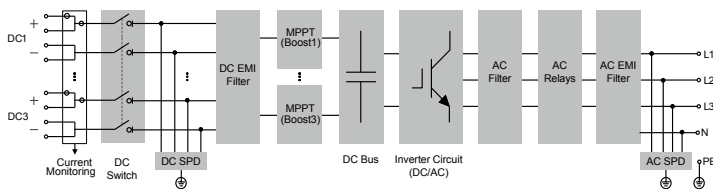
SMART O&M

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

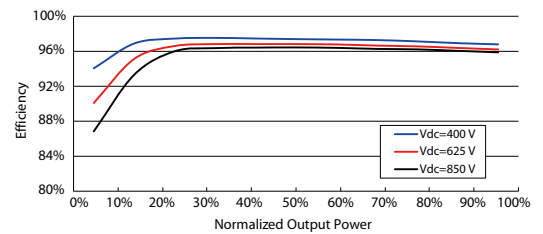
PROVEN SAFETY

- 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 |
| Input (DC) | |
| 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 | 400V - 850 V |
| No. of independent MPP inputs | 3 |
| Max. number of PV strings per MPPT | 2 |
| Max. PV input current | 26 A * 6 |
| Max. DC short-circuit current | 40 A * 6 |
| Output (AC) | |
| 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 _n |
| 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 / European efficiency | 97.4% / 97.1% |
| Protection | |
| 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 |
| General Data | |
| Dimensions (W * H * D) | 740 * 645 * 310 mm |
| Weight | 54 kg |
| Isolation method | Transformerless |
| Ingress protection rating | IP66 |
| Corrosivity class | C5 |
| Night power consumption | < 3W |
| 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) |
| Display | LED, Bluetooth+APP |
| Communication | RS485 / Wi-Fi Optional: Ethernet |
| DC connection type | MC4 (Max. 6 mm ²) |
| AC connection type | OT or DT terminal (35~70 mm ²) |
| AC Cable specification | Outside diameter 25~50mm |
| 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