

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- 3 MPPTs with max. efficiency 98.6%
- Compatible with bifacial module
- Built-in PID recovery function



SMART O&M

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



LOW COST

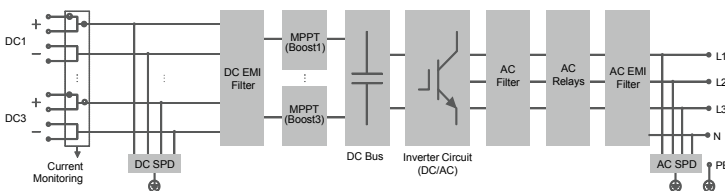
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Cable free communication with optional Wi-Fi



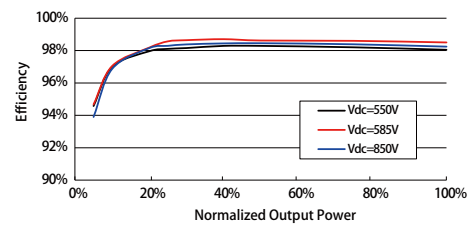
PROVEN SAFETY

- 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 | SG30CX |
|---|--|
| Input (DC) | |
| Max. PV input voltage | 1100 V |
| Min. PV input voltage / Start-up input voltage | 200V / 250 V |
| Nominal PV input voltage | 585 V |
| MPP voltage range | 200 – 1000 V |
| MPP voltage range for nominal power | 550 – 850 V |
| No. of independent MPP inputs | 3 |
| Max. number of PV strings per MPPT | 2 |
| Max. PV input current | 78 A |
| Max. current for input connector | 30 A |
| Max. DC short-circuit current | 120 A |
| Output (AC) | |
| AC output power | 29.9 KVA |
| Max. AC output current | 43.15 A |
| Nominal AC voltage | 3 / N / PE, 230 / 400 V |
| AC voltage range | 312 – 528 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 | 98.6 % |
| European efficiency | 98.3 % |
| Protection | |
| DC reverse connection protection | Yes |
| AC short circuit protection | Yes |
| Leakage current protection | Yes |
| Grid monitoring | Yes |
| DC switch | No |
| DC switch / AC switch | No |
| PV String current monitoring | Yes |
| Q at night | Yes |
| PID recovery function | Yes |
| Overvoltage protection | DC Type II / AC Type II |
| General Data | |
| Dimensions (W*H*D) | 702*595*310mm |
| Weight | 50 kg |
| Isolation method | Transformerless |
| Degree of protection | IP66 |
| 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 / Optional: Wi-Fi, Ethernet |
| DC connection type | MC4 (Max. 6 mm ²) |
| AC connection type | OT or DT terminal (Max.70 mm ²) |
| Compliance | IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, AS / NZS 4777.2:2015 |
| Grid Support | Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control |

*: Only compatible with Sungrow logger and iSolarCloud

