

SP-510K-H

SP Series String Inverter



More power generation

- Max. efficiency 99%, Euro efficiency 98.8%
- 6 MPPTs for tracking maximum power
- Support bifacial PV modules, DC/AC ratio up to 1.8



Low system cost

- Support aluminum cable access, saving cable costs
- Support PLC communication, save communication cable



High reliability

- IP66 protection and C5 anti-corrosion rating
- Cooling fan with IP68 protection level
- Integrated string monitoring function

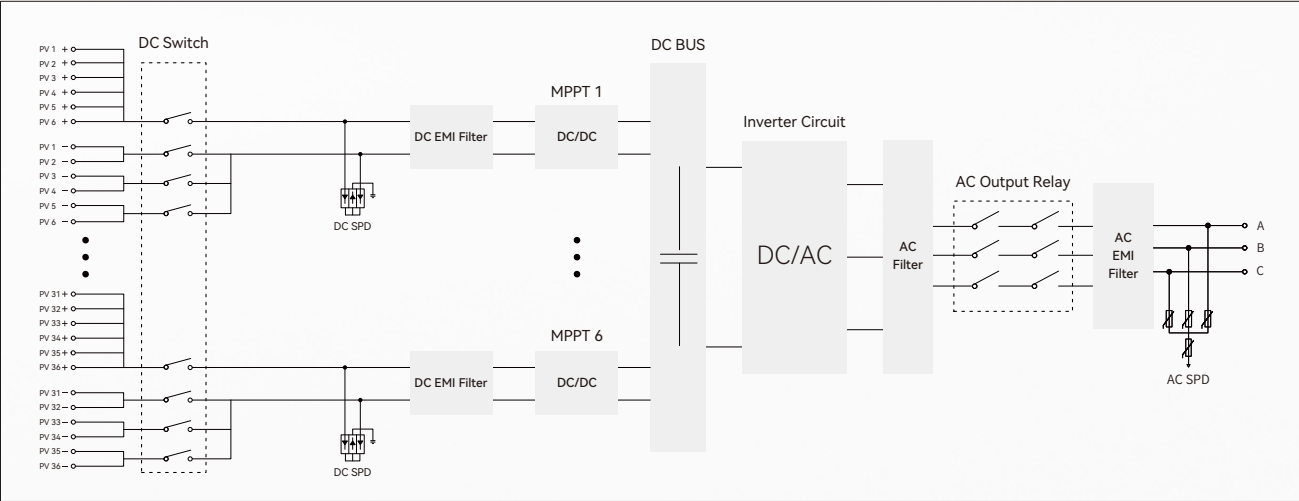


Grid friendly

- Support LVRT and HVRT functions
- Support Active & Reactive power control
- Compatible with different grid codes



Circuit Diagram



Model

SP-510K-H

Input (DC)

Max. PV input voltage	1650V
MPPT Max. input current	105A*6
Rated input voltage	1200V
MPP voltage range	500~1500V
Number of MPPT trackers	6
Max. number of PV strings	36

Output (AC)

AC output power	511.5kVA@30°C/465kVA@40°C/425kVA@50°C
Rated grid voltage	1000V
Max. output current	295.3A
Rated grid frequency/range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic (at nominal power)	<3%
DC current injection	<0.5%In
Power factor at nominal power/range	>0.99/0.8leading to 0.8lagging

Protection

DC reverse connection protection	Yes
Over voltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Yes
Anti-PID function	Yes

Efficiency

Max. efficiency	99.0%
EU efficiency	98.8%

General Data

Isolation method	Transformerless
Self-consuming in night	<3.5W
Protection level	IP66
Temperature	-30°C ~ +60°C (>40°C derating)
Allowed humidity (non condensing)	0~100%
Cooling mode	Temperature controlled forced air cooling
Max. operating altitude	5000m (>4000m derating)
Communication port	Standard: PLC, Optional: RS485
Dimensions (W×H×D)	1272×735×403mm
Weight	135kg