

SP-275K-INH

SP Series String Solar Inverter



More power generation

Max. efficiency 99.03%, Euro efficiency 98.80%
12MPPTs for tracking maximum PV power
Supports bifacial PV modules with max. PV current 20A



Low system cost

Up to 24 PV strings
Support aluminum cable access, saving cable costs
Support PLC communication, save communication cable



High reliability

Cooling fan with IP68 protection level
Integrated string monitoring function
Standard connection terminal for quick installation

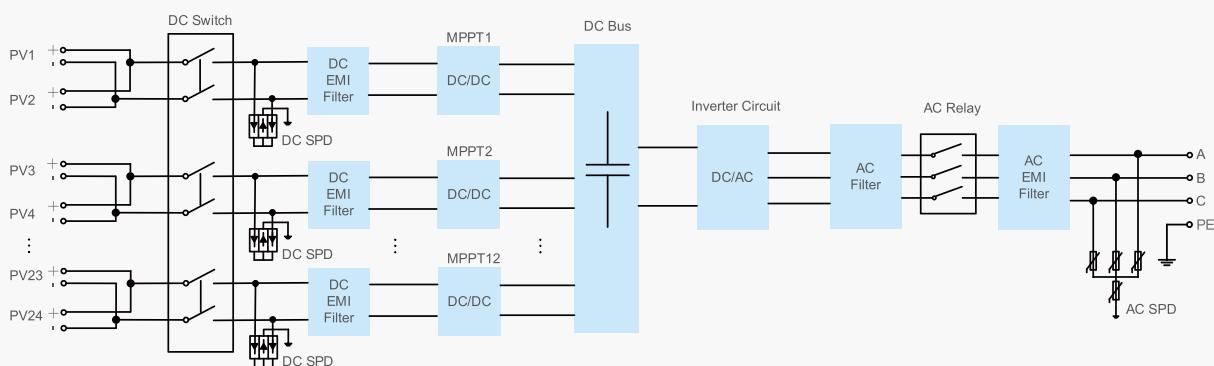


Grid friendly

Active power derating and reactive power adjustable
Low harmonics and fast response for grid regulation



Circuit



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Specifications subject to change without notice.

| Input (DC) | | SP-275K-INH |
|---|--|---|
| Max. PV input voltage | | 1500V |
| MPPT Max. input current | | 40A*12 |
| Rated input voltage | | 1080V |
| MPP voltage range | | 500~1500V |
| MPP voltage range for nominal power | | 880~1300V |
| Number of MPPT trackers | | 12 |
| Max. number of PV strings per MPPT | | 2 |
| Output (AC) | | |
| Rated output power | | 275kW@30°C, 250kW@45°C, 225kW@50°C |
| Max. output power | | 275kW |
| Rated grid voltage | | 800V |
| Grid voltage range | | 680~880V |
| Max. output current | | 198.5A |
| Rated grid frequency / range | | 50Hz/45~55Hz, 60Hz/55~65Hz |
| Output current harmonic(at nominal power) | | <3% |
| Power factor at nominal power / range | | >0.99/0.8leading to 0.8lagging |
| Protection | | |
| DC reverse connection protection | | Yes |
| Overvoltage protection | | DC Type II/AC Type II |
| Leakage current protection | | Yes |
| Grid monitoring | | Yes |
| Insulation monitoring | | Yes |
| Anti-island protection | | Yes |
| Efficiency | | |
| Max. efficiency | | 99.03% |
| EU efficiency | | 98.80% |
| General Data | | |
| Isolation method | | Transformerless |
| Self-consuming in night | | <3.5W |
| Protection level | | IP66 |
| Noise | | <60dB |
| Temperature | | -30°C ~ +60°C |
| 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) | | 1180×733×350mm |
| Weight | | 130kg |