SP-275K-H1

SP Series String Inverter

More power generation
· Max. efficiency 99%, Euro efficiency 98.8%
· 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
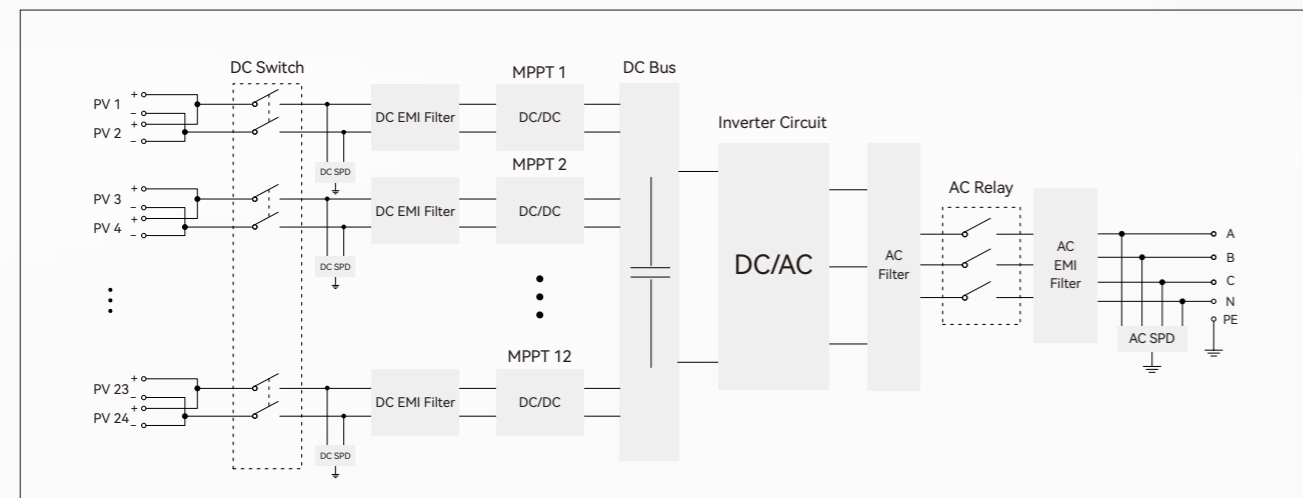· Support PLC communication, save communication cable

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

Grid friendly
· LVRT and HVRT function
· Active & Reactive power control

Circuit Diagram

Model	SP-275K-H1
Input (DC)	
Max. PV input voltage	1500V
MPPT Max. input current	40A*12
Rated input voltage	1080V
MPPT voltage range	500~1500V
MPPT voltage range for nominal power	880~1300V
Number of MPPT trackers	12
Max. number of PV strings	24
Output (AC)	
Rated output power	275kW@30℃/250kW@45℃/225kW@50℃
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
Over-voltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes
Efficiency	
Max. efficiency	99.0%
EU efficiency	98.8%
General Data	
Isolation method	Transformerless
Self-consuming in night	<3.5W
Protection level	IP66
Temperature	-30℃ ~ +60℃
Allowed humidity (non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m
Communication port	Standard: PLC, Optional: RS485
Dimensions (W*H*D)	1180×733×350mm
Weight	130kg
IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068,IEC61000,IEC60529,EN50530,EN62920,EN50549,PO.12.2 NTS631,VDE 0126 VFR+UTE,C15-712-1,CEI 0-16,C10/11	