

SP-50K-L, SP-60K-L

SP Series String Solar Inverter



More power generation

Max. efficiency 98.9%, Euro efficiency 98.60%
3 MPPTs for tracking maximum PV power



Low system cost

Up to 12 PV strings
High DC/AC ratio for lower LCOE



High reliability

Cooling fan with IP68 protection level
String monitoring function, easy for quick trouble shooting

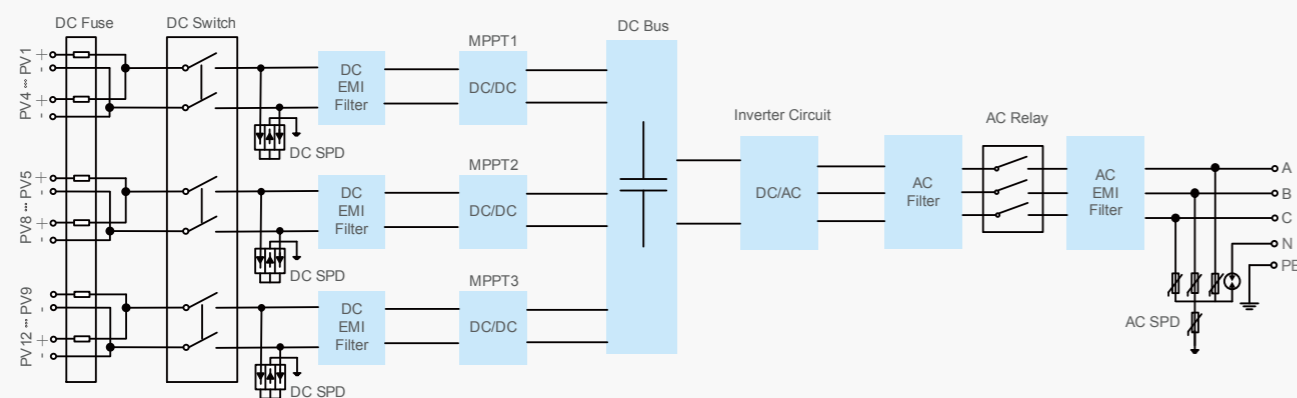


Grid friendly

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



Circuit



Input (DC)	SP-50K-L	SP-60K-L
Max. PV input voltage	1100V	1100V
Max. input current	44A/33A/33A	44A*3
Rated input voltage	620V	620V
MPP voltage range	200~1000V	200~1000V
MPP voltage range for nominal power	520~850V	520~850V
Number of MPPT trackers	3	3
Max. number of PV strings per MPPT	4/3/3	4
Output (AC)		
Rated output power	50kW	60kW
Max. output power	55kW	66kW
Rated grid voltage	380V/400V	380V/400V
Grid voltage range	320~480V	320~480V
Max. output current	79.5A	95A
Rated grid frequency / range	50Hz/45~55Hz, 60Hz/55~65Hz	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%	<3%
Power factor at nominal power / range	>0.99/0.8leading to 0.8lagging	>0.99/0.8leading to 0.8lagging
Protection		
DC reverse connection protection	Yes	Yes
Overvoltage protection	DC Type II/AC Type II	DC Type II/AC Type II
Leakege current protection	Yes	Yes
Grid monitoring	Yes	Yes
Insulation monitoring	Yes	Yes
Anti-island protection	Yes	Yes
Efficiency		
Max. efficiency	98.90%	98.90%
EU efficiency	98.60%	98.60%
General Data		
Isolation method	Transformerless	Transformerless
Self-consuming in night	<5W	<5W
Protection level	IP65	IP65
Noise	<60dB	<60dB
Temperature	-30 C ~+60 C	-30 C ~+60 C
Allowed humidity(non condensing)	0-100%	0-100%
Cooling mode	Temperature controlled forced air cooling	Temperature controlled forced air cooling
Max.operating altitude	4000m (>3000m derating)	4000m (>3000m derating)
Communication port	Standard:RS485, Optional:GPRS	Standard:RS485, Optional:GPRS
Dimensions (W×H×D)	585×853×295mm	585×853×295mm
Weight	72kg	72kg