

# 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

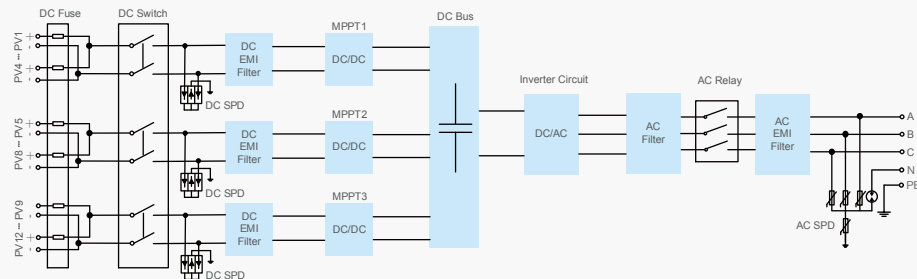


### Grid friendly

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)	SP-50K-L	SP-60K-L
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	SP-50K-L	SP-60K-L
DC reverse connection protection	Yes	Yes
Overvoltage protection	DC Type II/AC Type II	DC Type II/AC Type II
Leakage current protection	Yes	Yes
Grid monitoring	Yes	Yes
Insulation monitoring	Yes	Yes
Anti-island protection	Yes	Yes

Efficiency	SP-50K-L	SP-60K-L
Max. efficiency	98.90%	98.90%
EU efficiency	98.60%	98.60%

General Data	SP-50K-L	SP-60K-L
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