

SP-120K-BL

Three Phase PV Inverter/ 10 MPPTs

Safe & Reliable

IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides

High Yield

Built-in PID recovery function
1.1 times continuous output overload

High - Performance Management

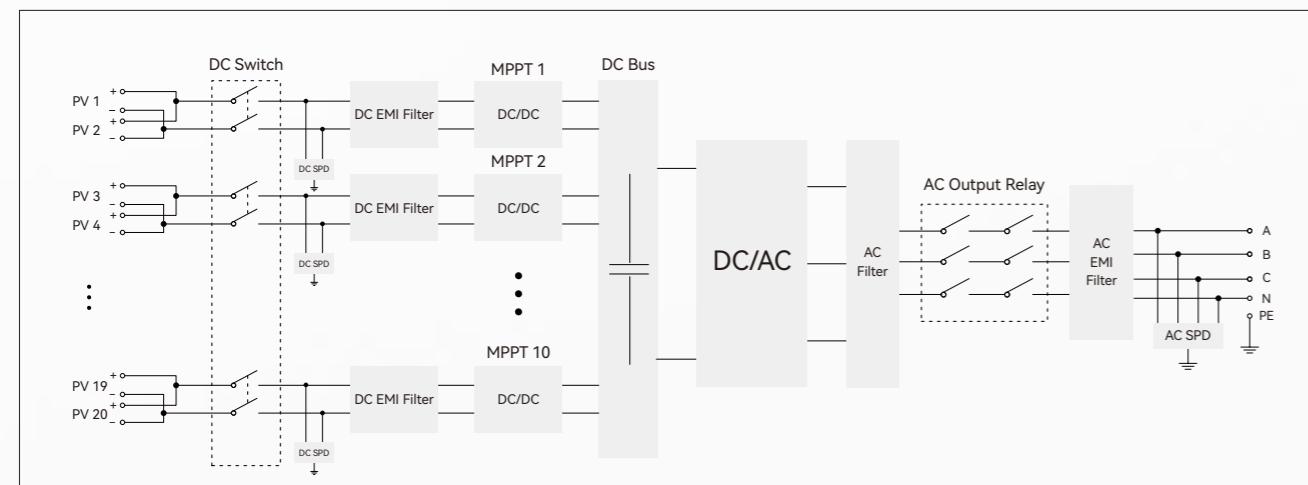
Accurate string current detection
Local & remote maintenance

User - Friendly Design

Multiple LED lights display
Quickly set up smart monitoring via APP



Circuit Diagram



Model		SP-120K-BL
Input (PV)		
Max. PV input voltage	1100V	
Recommended max. PV power (STC)	165kWp	
Nominal PV input voltage	600V	
MPPT operating voltage range	200V~1000V	
Full power MPPT voltage range	520V~850V	
Startup PV voltage	500V	
Number of PV inputs	20 (10 MPPTs, 10*2)	
Max. current per MPPT	30A	
Max. short circuit current per MPPT	45A	
Output (grid)		
Nominal output power	110kW	
Max. output apparent power	121kVA@35°C, 110kVA@45°C, 100kVA@50°C	
Max. output current	184A	
Nominal grid voltage	3L/PE or 3L/N/PE, 230V/400V	
Grid voltage range	320V~480V (According to the local standards)	
Nominal grid frequency	50/60Hz	
Power factor range	0.8leading~0.8lagging	
Harmonic (THD)	<3%	
Efficiency		
Max. efficiency	98.80%	
EU efficiency	98.50%	
General data		
Display mode	LED	
Communication port	RS485, WIFI/4G/Ethernet	
Weight	85kg	
Dimensions (W*H*D)	1018*630*339mm	
Max. operating altitude	4000m (>3000m derating)	
Cooling method	Smart fan cooling	
Humidity	0~100%	
Operating temperature	-25~60°C	
Protection level	IP66	
Topology	Transformerless	
Self-consumption at night	< 3.5W	
Protection		
Leakage current protection	Yes	
Anti-island protection	Yes	
DC reverse protection	Yes	
AC short circuit protection	Yes	
PV string current detection	Yes	
PID recovery	Yes	
Arc-fault circuit-interrupt	Optional	
DC switch	Yes	
Surge protection	DC II/AC II	
Insulation monitoring	Yes	
Over-voltage protection	AC III/DC II	
IEC 62109-1/2, IEC61000-6, IEC62116, IEC61683, IEC61727, IEC60068, IEC61000-3, EN50549-1/2, VDE4105, C10/11, VDE0126/VFR2019, KSC8565, CEI-0-21, NRS097, DEWA, PEA/MEA, BIS/CEA		