

SP-120K-BL

Three Phase PV Inverter/ 10 MPPTs

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Safe & Reliable

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

Built-in PID recovery function
1.1 times continuous output overload
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High - Performance Management

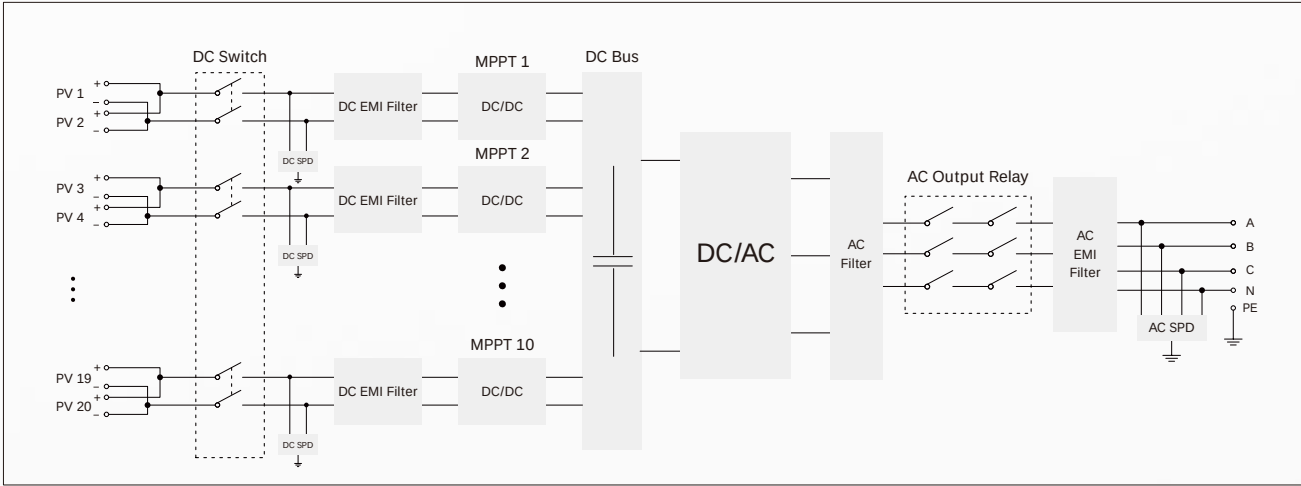
Accurate string current detection
Local & remote maintenance
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User - Friendly Design

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		