

Three-phase On-grid String Inverter

SPI50K~60K-B Series



Product Features

High efficient

- 3 level topology, maximum efficiency 99%
- 4 MPPT design

Safe and reliable

- Outdoor IP65 design, no derating below 3000m altitude
- All industrial grade electronic device, ensure 25 years full life circle running.

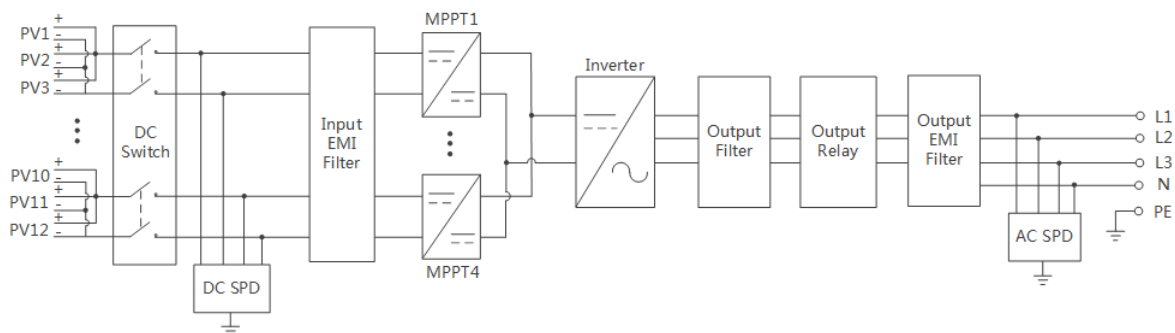
Intelligent management

- Intelligent online upgrade function, easy upgrade and maintain
- Support RS485, Wifi, GPRS communication

Grid friendly

- Grid-connected current harmonics <3%, green adapts to grid
- Ultra wide grid voltage range

Function Diagram



Technical Specification

Items	SPI50K-B		SPI60K-B	
DC Input (PV)				
Max. PV input voltage	1000Vdc			
Rated input voltage	600Vdc			
Max. PV input current	4×30A			
No. of MPPTs	4			
No.of PV strings per MPPT	3/3/3/3			
MPPT voltage range	300~1000Vdc			
Starting voltage	250Vdc			
DC switch	Yes			
AC Output (On-grid)				
Rated AC output power	50kW		60kW	
Max. output power	55kVA		66kVA	
Rated AC output voltage	380/400/415Vac			
Rated output current	72.5A		86.6A	
Max. output current	79.7A		95.3A	
Rated grid frequency	50Hz/60Hz			
Grid frequency range	45~55Hz/55~65Hz			
Power factor	>0.99 (rated power)			
Adjustable power factor	0.8 (leading)~0.8 (lagging)			
THDi	<3% (rated power)			
Efficiency				
Max. efficiency	98.80%		99.00%	
European efficiency	98.30%		98.45%	
MPPT efficiency	99.90%			
Function and protection				
Anti-islanding	Yes			
DC(PV) reversed connection	Yes			
AC short circuit protection	Yes			
Temperature protection	Yes			
Surge protection	DC Type II & AC Type II			
General				
Dimensions (W×H×D)	600×860×294mm			
Weight	65kg			
IP grade	IP65			
Self-consumption at night	<1W			
Cooling type	Intelligent forced air cooling			
Altitude	4000m (>3000m derating)			
Operating temperature	-25°C~60°C			
Relative humidity	0~100%			
Display	LED+APP			
DC terminal	MC4 Terminal			
AC terminal	OT Terminal			
Installation method	Wall-mounted			
Communication	RS485, WIFI(optional)/GPRS (optional)			
Certification	IEC/EN62109-1, IEC/EN62109-2, EN61000, IEC60068, IEC61727, IEC62116, CEI0-16, CEI0-21, UTE C15-712-1, ENEDIS-NOI-RES 20E, VFR2019, DEWA2.0, IS16221, IS16169			

- Specifications are subject to change without prior notice.

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