

Single-phase On-grid String Inverter

SPI3000~6000-B2 Series



Product Features

High efficiency

- High-efficiency inverter topology ensures annual power generation
- Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

Safe and reliable

- IP65 for outdoor application
- Integrated AC/DC full lightning protection
- Aluminum alloy die-casting integrated chassis, ensure 25 years full life circle running

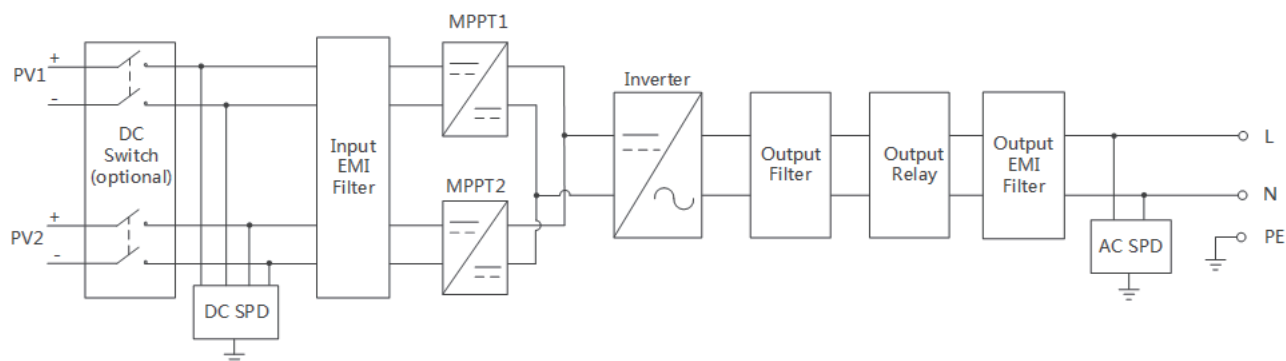
Intelligent management

- Intelligent cloud platform monitoring, realizing one- key APP real-time monitoring
- Support RS485, GPRS, WIFI and other communication methods

Green saving

- Small size, easy to install and use
- Natural cooling, ensuring low environmental noise
- Super-wide operating temperature range, adapt to extremely cold, high temperature areas

Function Diagram



PV+ESS for the Future

Technical Specification

Items	SPI3000-B2	SPI3600-B2	SPI4000-B2	SPI4600-B2	SPI5000-B2	SPI6000-B2
DC Input (PV)						
Recommended max. PV input power	3.9kWp	4.68kWp	5.2kWp	5.98kWp	6.5kWp	7.8kWp
Max. PV input voltage	600Vdc					
Rated input voltage	360Vdc					
Max. PV input current	13A/13A					
No. of MPPTs	2					
No.of PV strings per MPPT	1/1					
MPPT voltage range	100~550Vdc					
Starting voltage	120Vdc					
DC switch	Yes					
AC Output (On-grid)						
Rated AC output power	3.0kW	3.6kW	4.0kW	4.6kW	5.0kW	6.0kW
Max. output power	3.3kVA	3.96kVA	4.4kVA	5.06kVA	5.5kVA	6.0kVA
Rated AC output voltage	220Vac/230Vac					
Grid voltage range	184~276Vac					
Rated output current	13.0A	15.7A	17.4A	20.0A	21.7A	26.0A
Max. output current	14.3A	17.2 A	19.1A	22.0 A	23.9 A	26.0 A
Rated grid frequency	50/60Hz					
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	98.10%	98.30%				
European efficiency	97.70%	97.90%				
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					
Zero-export function	Yes (optional)					
General						
Dimensions (W×H×D)	360×420×125mm					
Weight	11.5kg					
IP grade	IP65					
Self-consumption at night	<1W					
Cooling type	Natural cooling					
Altitude	4000m (>2000m derating)					
Operating temperature	-40°C~60°C					
Operating humidity	0~100%					
Display	LCD+LED					
DC (PV) terminal	MC4 Terminal					
AC (On-grid) terminal	Plug and play connector					
Installation method	Wall-mounted					
Communication	RS485, DRM (optional), WiFi(optional)/GPRS (optional)					
Certification	IEC/EN62109-1, IEC/EN62109-2, EN61000, IEC60068, IEC62116, IEC61727, VDE0126-1-1, CEI0-21, UTE C15-712-1, AS4777, ENEDIS-NOI-RES_13E, RD1669 RD413, RD661, EN50438, AS/NZS4777.2, IS16221, IS16169					

- Specifications are subject to change without prior notice.

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