



## Solar on-grid inverter with transformer

### Characteristics:

- **Excellent Maximum Power Control Method**

Adopt DSP control technology, realize rapid MPPT control method, and make wide solar input voltage range, with superior adaptability.

- **Green Energy with Full Sine Current Input to Grid**

Adopt grid tracking technology, make grid power factor above 0.99, and cause no harmonic pollution to grid.

- **DC Input Over-Voltage Alarm & Protection Function**

When DC input voltage is higher than over-voltage point or lower than invertible voltage point, the inverter will automatically shutdown and protect, output security relay disconnect without absorbing grid power.

- **Automatic Load Limit Function**

When equivalent power output feedback to grid exceeds 105% of rated loading, inverter DSP control will automatically limit maximum output loading power to protect the equipment effectively.

- **Islanding Protection Function**

Adopt active islanding protection design to satisfy islanding protection time requirement of on grid power supply.

- **Wide Temperature Range**

Normal operation within range of  $-20^{\circ}\text{C}\sim+50^{\circ}\text{C}$ .

Technical Specification:

Model	SPI1500-A	SPI2000-A	SPI3000-A	SPI4000-A	SPI5000-A	SPI6000-A
Input Data						
Max. DC Input Power (W)	1650	2200	3300	4400	5500	6600
Max. DC Input Voltage (VDC)	450				600	
Max. DC Input Current (A)	7.5	10	15	20	17	24
MPPT Voltage Range (V)	250~430				250~580	
Max. No. of String	1		2		4	
Output Data						
Rated AC Output Power (W)	1500	2000	3000	4000	5000	6000
Rated AC Voltage (Single Phase)(V)	220/230/240 (110/120/127 are available for customization)					
Rated AC Frequency (Hz)	50/60					
Total Harmonic Distortion	≤3% (At full load operation)					
Power Factor	>0.99 (At full load operation)					
Efficiency						
Max. Efficiency	≥94%					
Europe Efficiency	≥93%					
Others						
Protection Level	Control Part: IP65; Radiating Part: IP54					
Operating Ambient Temperature	-20℃~+50℃					
Operating Ambient Humidity	0~95%					
Protection	DC over-voltage protection, Low voltage protection, Over temperature protection; Output over-voltage protection, Anti-islanding protection					
Reference Dimension (W x D x H) (mm)	460 × 395 × 220		395 × 520 × 260		440 × 580 × 300	
Reference Weight (Kg)	34	36	51	53	64	66
Communication Port	RS485					

◆ We reserve the right of modifying specification and appearance.



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Normal operation within range of  $-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$ .

Technical Specification:

Model	SPI1500-B	SPI2000-B	SPI3000-B	SPI4000-B	SPI4600-B
Input Data					
Max. DC Input Power (W)	1800	2400	3500	4600	5200
Max. DC Input Voltage (VDC)	500				
Max. DC Input Current (A)	9	11	14	20	22
MPPT Voltage Range (V)	150~450				
Max. No. of String	1		2		
Output Data					
Rated AC Output Power (W)	1500	2000	3000	4000	4600
Rated AC Voltage(Single Phase)(V)	220/230/240 (110/120/127 are available for customization)				
Rated AC Frequency (Hz)	50/60				
Total Harmonic Distortion	≤3% (At full load operation)				
Power Factor	>0.99 (At full load operation)				
Efficiency					
Max. Efficiency	≥96.5%				
Europe Efficiency	≥96%				
Others					
Protection Level	IP65				
Operating Ambient Temperature	-20°C~+60°C				
Operating Ambient Humidity	0~95%				
Protection	DC over-voltage protection, Low voltage protection, Over temperature protection, Output over-voltage protection, Anti-islanding protection				
Reference Dimension (W x D x H) (mm)	335x410x150		410x510x160		
Reference Weight (Kg)	15		24		
Communication Port	RS485				

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