

Inverter & Transformer Turnkey Solution for 1500V System

SPI5000K-TH/SPI6250K-TH/SPI6800K-TH



Product Features

High Performance

- 3-level technology, inverter max. conversion efficiency up to 99.00%
- Integrated with transformer, double winding or double split transformer is optional

Safety and Reliability

- Modular and compact product design for consistency
- Intelligent fan control cooling, full load operation at 50° C

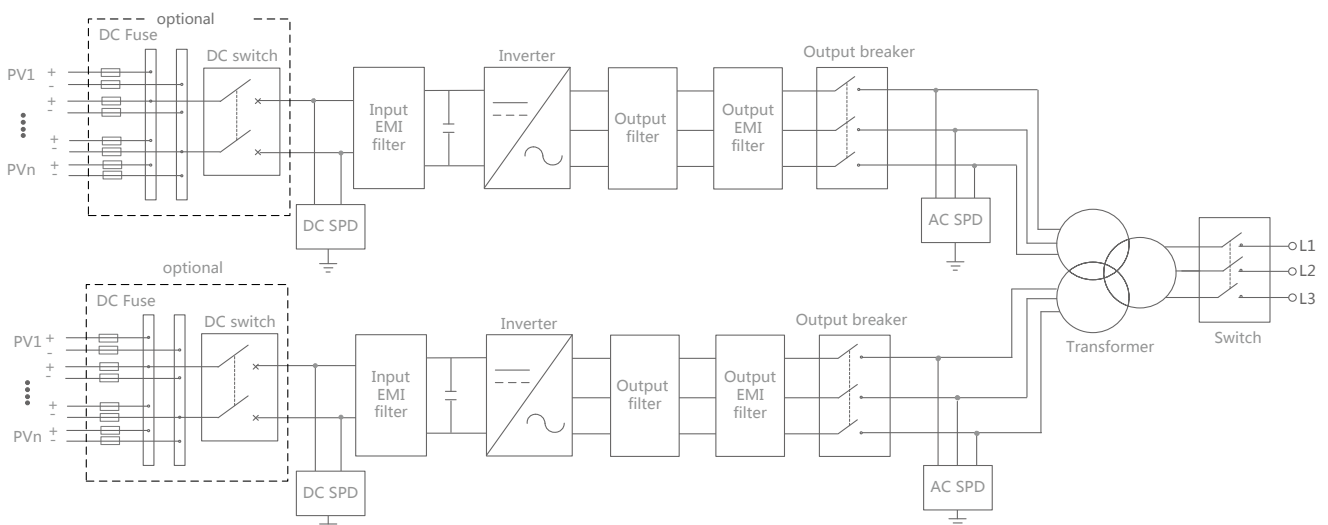
Advanced Intelligence

- Integrated multifunction transformer measuring and controlling device for easy management
- Collecting monitoring information of combiner box, inverter and transformer for fast and accurate trouble shooting

Saved Investment

- DC 1500V system design for low system initial investment
- Turnkey solution for fast and easy installation

Function Diagram



Technical Specifications

Items	SPI5000K-TH	SPI6250K-TH	SPI6800K-TH
DC Input			
Max. PV input voltage	1500Vdc		
Max. PV input current	4×1754A	4×1960A	4×1993A
No. of PV input strings	48, >48 optional		
No. of MPPTs	4		
MPPT voltage range	800V~1300V	900V~1300V	945~1300V
Starting voltage	840Vdc	940Vdc	985Vdc
MPPT efficiency	99.90%		
AC Output			
Rated AC output power	5000kW	6250kW	6800kW
Max. output power	5500kW at 45°C/5000kW at 50°C	6875kW at 45°C/7188kW at 25°C	7480kW at 45°C/7816kW at 25°C
AC voltage range	20~35kV		
Rated grid frequency	50Hz/60Hz		
Grid frequency range	±5%		
Power factor	>0.99 (rated power)		
PF adjustable range	0.8 leading ~0.8 lagging		
THDi	<3% (at rated power)		
Inverter Efficiency			
Max. efficiency	99.00%		
European efficiency	98.70%		
General			
LVRT function	Yes		
AC side parallel technology	Yes		
Fault wave record diagnosis	Yes		
Online upgrade	Yes		
Anti-PID function	Optional		
Night SVG function	Optional		
Transformer measuring and controlling device	Yes		
Transformer Data			
Transformer rated power	5000kVA	6250kVA	6800kVA
LV/MV voltage	0.55/20~35kV	0.6/20~35kV	0.66/20~35kV
Transformer vector	Dy11y11		
Transformer cooling type	ONAN (Oil Natural Air Natural)		
General Data			
Dimensions (W×H×D)	12088×2896×2438mm		
Weight	30T		
IP grade	IP54		
Cooling	Intelligent forced air cooling		
Max. operating altitude	2000m (standard)/ >2000m (optional)		
Operating temperature range	-35°C~60°C		
Relative humidity	0~95%, no condensation		
Display	LCD		
Communication	RS485, Ethernet (optional)		

*Specifications are subject to change without prior notice.