

Inverter & Transformer Turnkey Solution for 1500V System

SPI3125K-TH/SPI3400K-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

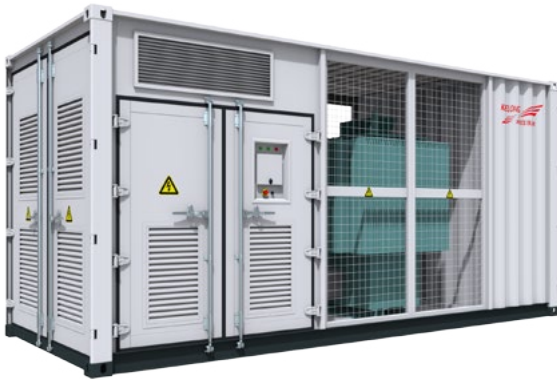
- Modular and compact product design for consistency
- Intelligent fan control cooling, full load operation at 50°C

Advanced Intelligence

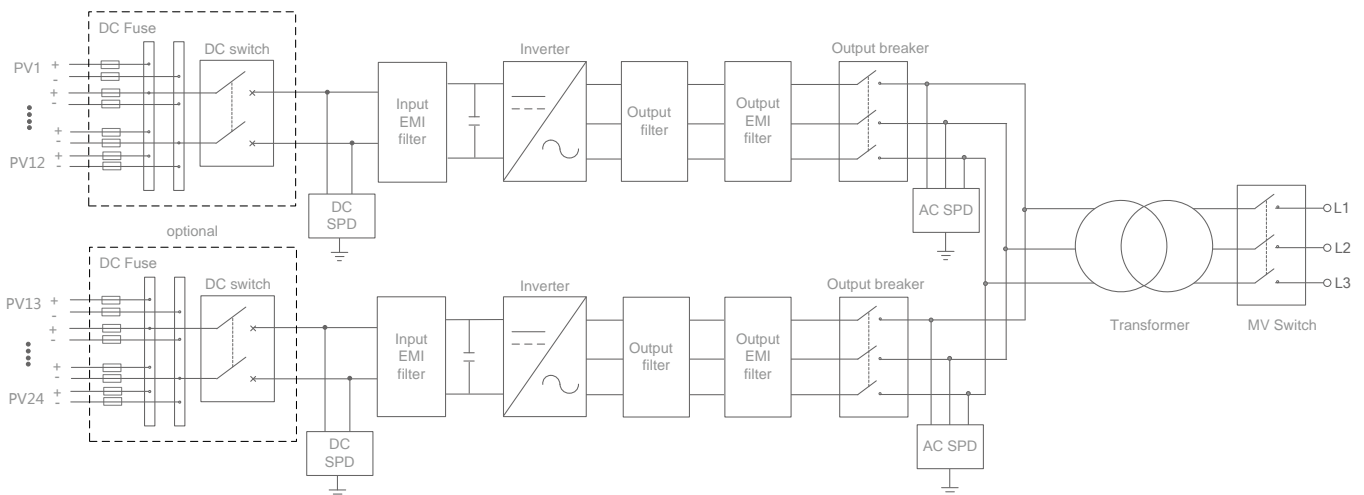
- Integrated multifunction transformer measuring and controlling device for easy management
- Collecting monitoring information of combiner box, inverter and transformer for fast and accurate trouble shooting

Saved Investment

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



Function Diagram



Technical Specifications

Items	SPI3125K-TH	SPI3400K-TH
DC Input		
Max. PV input voltage	1500Vdc	
Max. PV input current	2×1960A	2×1993A
No. of PV input strings	24~30 optional	
No. of MPPTs	2	
MPPT voltage range	900V~1300V	945V~1300V
Starting voltage	940Vdc	985Vdc
MPPT efficiency	99.90%	
AC Output		
Rated AC output power	3125kW	3400kW
Max. output power	3437kW at 45°C/3594kW at 25°C/3125kW at 50°C	3740kW at 45°C/3908kW at 25°C/3400kW at 50°C
AC voltage range	10~35kV	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	±5%	
Power factor	>0.99 (at 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	3125kVA	3400kVA
LV/MV voltage	0.55/10~35kV	0.66/10~35kV
Transformer vector	Dy11	
Transformer cooling type	ONAN (Oil Natural Air Natural)	
General Data		
Dimensions (W×H×D)	6058×2896×2438mm	
Weight	15T	
IP grade	IP54	
Cooling type	Intelligent forced air cooling	
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.