



Central PV Inverter with Isolation Transformer

SPI250K-A/SPI500K-A

High Efficiency:

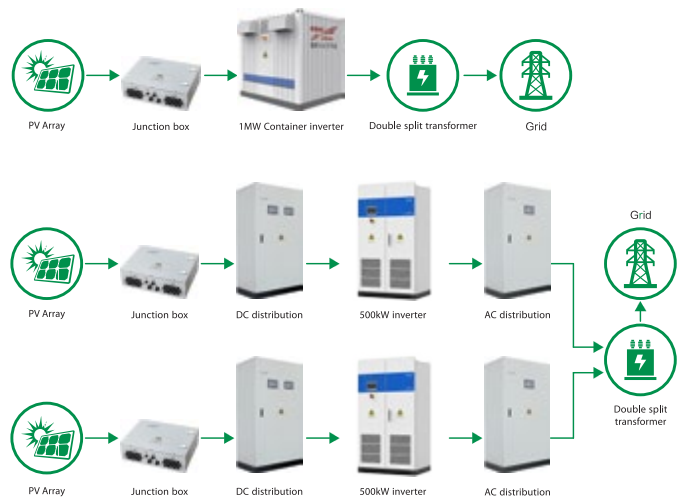
- Advanced MPPT, maximum conversion efficiency up to 97.8%
- 45°C 1.1 times the long-term overload, 50°C full load operation

Lean Intelligence:

- Intelligent fault recording function, quick failure analysis
- Intelligent online upgrade function, easy system upgrade and maintenance management

Safe and Reliable:

- Adapt to high altitude, high temperature, extreme cold and other complex environment
- DSP+CPLD control structure, safe and reliable
- Long life design of thin film capacitor



Cost Saving:

- Modular design, saving operation and maintenance cost
- Integrated high efficient isolation transformer, realize low - voltage grid connection directly

Technical Specification:

Items	SPI250K-A	SPI500K-A
DC Input		
Max. PV Power (kW)	280	560
Max. PV Input Voltage (Vdc)	1000	
Max. PV Input Current (A)	600	1200
PV Input String Number	4	8
No. of MPPTs	1	1
MPPT Voltage Range (Vdc)	460~850	
Start up Voltage (Vdc)	480	
MPPT Efficiency	99.90%	
AC Output		
Nominal AC Output Power (kW)	250	500
Max. Output Power (kW)	275	550
Max. Output current (A)	418	836
Nominal AC Voltage (Vac)	380	
Nominal Grid Frequency (Hz)	50/60	
Power Factor (nominal power)	>0.99	
Power Factor Adjustable Range	0.9 (leading)~0.9 (lagging)	
THDi	<3% (nominal power)	
Isolation Type	High efficient transformer	
Efficiency		
Max. Efficiency	>97.80%	
European Efficiency	>97.30%	
Others		
AC Side Parallel Technology	Yes	
PID Repair	Yes	
Fault Wave Record Diagnosis	Yes	
Online Upgrade	Yes	
System Data		
Dimensions (WxHxD) (mm)	1000x2000x800	1400x2000x1000
Weight (kg)	1500	2200
IP Grade	IP20	
Night Consumption	<20W	
Cooling	Intelligent forced air cooling	
Altitude	6000m (>3000m derating)	
Operating Temperature Range (°C)	-35~60	
Operating Humidity	0~95% (non-condensation)	
Display	LCD Touch Screen	
Communication	RS485, Ethernet (optional)	

- 120V/208V 277V/480V On-grid inverter for South and North American Markets are available for customization.
- Specifications are subject to change without prior notice.