

Overview

The SPT15-25KTL series is an on-grid PV inverter that can convert DC power generated by PV arrays into AC power and feed it back into the grid. The series selects key components with high power density and long service life, providing continuous, full and stable power output; with multiple human-machine interaction solutions available, it is convenient to control the real-time parameters. At the same time, its EMC characteristics make it suitable for applications with high power quality requirements.

Features

- High power density and long life components, stable and reliable.
- IP65 Protection, supporting outdoor installation.
- Dual MPPT inputs, maximum 150% DC input oversizing.
- Maximum DC input voltage of 1,100VDC, maximum string input current of 15A.
- Support 110% long term overload.
- Optional GPRS and WiFi modules for remote monitoring.
- DC Type II & AC Type III SPD to prevent lightning damage.
- Support anti-backflow function(optional).



Product Model	SPT15KTL	SPT17KTL	SPT20KTL	SPT22KTL	SPT25KTL
DC Input					
Maximum DC Input Voltage	1,100VDC				
Maximum DC Input Power	18,000W	20,000W	23,000W	25,000W	28,000W
Rated DC Input Voltage	650VDC				
MPPT Operating Voltage Range	180–1,000VDC				
MPPT Voltage Range (Full Load)	480V–850V				
Maximum Input Current of MPPT	15A*2				
PV Short-circuit Current	36A				
MPPT Number	2				
Maximum Number of PV Strings per MPPT	2/2				
AC output					
Rated AC Output Power	15,000W	17,000W	20,000W	22,000W	25,000W
Maximum AC Apparent Power	16,500VA	18,800VA	22,000VA	24,000VA	27,500VA
Rated AC Output Voltage	380VAC/400VAC				
Rated AC Output Frequency	50Hz/60Hz				
Maximum AC Output Current	25.1A	28.4A	33.4A	36.8A	41.8A
Power Factor	1				
THDi (Total Harmonic Current Distortion)	<3%				
AC Grid Connection Type	3W+N+PE				
Efficiency					
Maximum Efficiency	98.60%	98.75%	98.75%	98.75%	98.75%
China Efficiency	98.20%	98.60%	98.60%	98.60%	98.60%
MPPT Efficiency	99.90%				
Others					
DC Input Connector	H4/MC4 (Optional)				
AC Output Connector	Connector				
Cooling Method	Natural cooling		Intelligent fan cooling		
Display	LED/WIFI+APP				
Self-consumption at Night	<1W				
Communication Port	USB/RS485(included), WIFI/GPRS(Optional)				
Mechanical parameters					
Dimension (Length*Width*Height)	520mm*430mm*210mm				
Net Weight (kg)	24.5		25		
Environment Parameters					
Relative Humidity	0—100%, no condensation				
Enclosure	IP65				
Operating Temperature Range	-30℃ ~ +60℃				
Altitude	≤ 4,000m				
Pollution Level	III				
Surge Protection Level	DC II /AC III				