



Suitable for Commercial & Industrial Solar Projects

Three Phase – 8/9 MPPT

Models : PSIT-100K-SM16 | 110K-SM18 | 125K-SM18

Leading Features

- Maximum Efficiency 98.2%
- Wide Voltage Range
- Support 50% DC Overload
- Up to 9 MPPT design with precise MPPT algorithm
- THDi <3%, Low Harmonic Distortion
- IP66 for Outdoor Installation
- Intelligent Fan Cooling
- Intelligent String Monitoring
- Smart I-V Curve Diagnosis
- Fuse Free Design to avoid Hazard
- Type II SPD or MOV for both DC and AC Side
- Integrated DC Disconnect Switches
- Rs-485, Wi-Fi / GPRS Monitoring Interface
- Support "Y" Type Connection in DC Side
- Support Aluminum Wire Access to Reduce Cost
- Free Remote Monitoring on Web Portal & Mobile App

TECHNICAL SPECIFICATIONS			
Model	PSIT-100K-SM16	PSIT-110K-SM18	PSIT-125K-SM18
Rating	100 kW	110 kW	125 kW
INPUT (PV)			
Max. Input Voltage	1100V		
Max. PV Configuration (STC)*	150%		
Rated / Nominal Input Voltage	600V		
Max. Input Current	3*40A+5*32A	3*40A+6*32A	
Max. Short Circuit Current	3*50A+5*45A	3*50A+6*45A	
Start Input Voltage/ Min. Operating Voltage	250V/200V		
MPPT Operating Voltage Range	200V-1000V		
Full Power MPPT Voltage	540-800V	540-800V	580-850V
Max. Number of PV Strings	8*2	9*2	
No. of MPPTs	8	9	
OUTPUT (GRID)			
Rated AC Active Power	100,000W	110,000W	125,000W
Max. AC Apparent Power	111,000VA	123,000VA	125,000VA
Max. AC Active Power (PF=1)	110,000W	121,000W	125,000W
Max. AC Output Current	3*168.8A	3*187A	3*181A
Rated AC Voltage	400V, 3W+N+PE		
AC Voltage Range [®]	322V-520V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range [®]	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDi	<3% (Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	> 0.99 Rated Power (Adjustable 0.8 LD - 0.8 LG)		
EFFICIENCY			
Max. Efficiency	98.2%		
Europe Efficiency	97.8%	98%	
PROTECTION			
DC Switch	Inbuilt		
Anti-Islanding Protection	Inbuilt		
AC Overcurrent Protection	Inbuilt		
AC Short Circuit Protection	Inbuilt		
DC Reverse Connection	Inbuilt		
Surge Arrester	DC/AC Type II		
Insulation Detection	Inbuilt		
Leakage Current Protection	Inbuilt		
PV String Monitoring	Inbuilt		
GENERAL			
Topology	Transformer-less		
IP Rating	IP66		
Night Self Consumption	<10W (Standard)		
Cooling	Fan Cooling		
Operating Temperature Range	-25°C to 60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise(typical)	65dB		
Dimensions (W*H*D)	936mm*678mm *365mm		
Weight	91.5 Kg	92 Kg	
HMI & COM			
Display	Wireless & APP+LED, LCD		
Communication	Wi-Fi /LAN/GPRS/RS485 (Optional)		
COM1 Interface	DB9		
COM4 Interface	Plug and Play Connector		
CERTIFICATION			
Safety	IEC62109-1, IEC62109-2		
EMC	IEC61000		
Grid Code	IEC 61727, IEC 62116, IEC 60068, IEC61683		
WARRANTY			
	8 Years		

Note : [®][®]The range of output voltage and frequency may vary depending upon different grid codes as per the government regulations. Specifications are subject to change without advanced notice. *Conditions Apply based on PV Module Rating.

