

Grid Tie Solar Inverter



Suitable for Commercial & Industrial Solar Projects

Three Phase – 3/4 MPPT

Models : PSIT-40K-SM6 | 50K-SM8 | 60K-SM8 | 75K-SM14

Leading Features

- Maximum Efficiency up to 98.3%
- Wide Voltage Range
- Support 50% DC Overload
- 3/4 MPPT design with precise MPPT algorithm
- THDi <3%,
- IP66 Enclosure
- 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

THREE PHASE & 3/4 MPPT PSIT-40K-SM6 | 50K-SM8 | 60K-SM8 | 75K-SM14

TECHNICAL SPECIFICATIONS				
Model	PSIT-40K-SM6	PSIT-50K-SM8	PSIT-60K-SM8	PSIT-75K-SM14
Rating	40 kW	50 kW	60 kW	75 kW
INPUT (PV)				
Max. Input Voltage	1100V			
Max. PV Configuration*	150 %			200%
Rated Input Voltage	620V			
Max. Input Current	40A+2*32A	40A+3*32A	40A+3*32A	2*64A+2*48A
Max. Short Circuit Current	50A+2*45A	50A+3*45A	50A+3*45A	2*72A+2*54A
Start Input Voltage/ Min. Operating Voltage	200V			250V/180V
MPPT Operating Voltage Range	180-1000V			
Max. Number of PV Strings	2/2/2	2/2/2/2		4+4+3+3
No. of MPPTs	3	4		
OUTPUT (GRID)				
Rated AC Active Power	40000W	50000W	60000W	75000W
Max. AC Apparent Power	44500VA	55600VA	66700VA	82500VA
Max. AC Active Power (PF=1)	44500W	55600W	66700W	82500W
Max. AC Output Current	67.5A	84.3A	92A	125A
Rated AC Voltage	380V/400V/415V, 3L+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 Leading - 0.8 Lagging)			
EFFICIENCY				
Max. Efficiency	98.2%	98.2%	98.2%	98.3%
European Efficiency	97.8%	97.8%	97.8%	97.9%
PROTECTION				
DC Switch	Inbuilt			
Anti-Islanding Protection	Inbuilt			
AC Overcurrent Protection	Inbuilt			
AC Short Circuit Protection	Inbuilt			
DC Reverse Protection	Inbuilt			
Surge Arrester	DC Type II / AC Type II			
Insulation Detection	Inbuilt			
Leakage Current Protection	Inbuilt			
PV String Monitoring	Inbuilt			
GENERAL				
Topology	Transformer-less			
IP Rating	IP66			
Night Self Consumption	<1W (Standard)			
Cooling	Fan Cooling			
Operating Temperature Range	-25°C to 60°C			
Relative Humidity Range	0-100%			
Max. Operating Altitude	4000m			
Noise emission (Typical)	<45dB		<55dB	55dB
Dimensions (W*H*D)	635mm*530mm*224mm		635mm*530mm*233mm	
Weight	41.5 Kg	42 Kg		43.3 Kg
HMI & COM				
Display	Wireless & APP+LED, LCD			
Communication	Optional: Wi-Fi/GPRS/RS485/LAN/4G			
CERTIFICATION				
Safety	IEC62109-1, IEC62109-2			
EMC	IEC61000			
Grid Code	IEC61727, IEC62116, IEC61683, IEC60068			
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.

