



Suitable for Commercial & Industrial Solar Projects

Three Phase – Dual MPPT

Models : PSIT-12K-SM3 | 15K-SM3 | 20K-SM4 | 25K-SM4 | 30K-SM4

Leading Features

Superior Efficiency

Maximum Efficiency 98.4%
Maximum String Current, Compatible with 600W+ Modules
150% PV Configuration, 110% Output Overload

High Reliability

IP66 Waterproof and Dustproof, C5 Anti Corrosion
DC / AC Surge Protections
Compatible with Wide Power Grid Voltage and High Harmonic Power Grid Environment

Intelligent Maintenance

App Quick Commissioning
Remote Configuration and Upgrade

THREE PHASE & DUAL MPPT

PSIT-12K-SM3 | 15K-SM3 | 20K-SM4 | 25K-SM4 | 30K-SM4

TECHNICAL SPECIFICATIONS					
Model	PSIT-12K-SM3	PSIT-15K-SM3	PSIT-20K-SM4	PSIT-25K-SM4	PSIT-30K-SM4
Rating	12 kW	15 kW	20 kW	25 kW	30 kW
INPUT (PV)					
Max. Input Voltage	1100V				
Max. PV configuration (STC)	150%				
Rated Input Voltage	620V				
Max. Input Current	15A+30A		30A+30A		40A+30A
Max. Short Circuit Current	20A+40A		40A+40A		50A+37.5A
Start Input Voltage	180V				
MPPT Operating Voltage Range	160-1000Vdc				
Full Power MPPT Voltage	270V-850V	340V-850V	340V-850V	430V-850V	510V-850V
Max. Number of PV Strings	1/2		2/2		
No. of MPPTs	2				
OUTPUT (GRID)					
Rated AC Active Power	12,000W	15,000W	20,000W	25,000W	30,000W
Max. AC Apparent Power	13,200VA	16,700VA	22,000VA	27,500VA	33,000VA
Max. AC Active Power (PF=1)	13,200W	16,700W	22,000W	27,500W	33,000W
Max. AC Output Current	3*20.2A	3*25.3A	3*33.7A	3*39.8A	3*50.2A
Rated AC Voltage	380V/400V/415V, 3W+N+PE				
AC Voltage Range®	260V-510V (Adjustable)				
Rated Grid Frequency	50Hz/60Hz				
Grid Frequency Range®	45Hz-55Hz/55Hz-65Hz (Adjustable)				
THDI	<3% (Rated Power)				
DC Current Injection	<0.5In				
Power Factor	> 0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)				
EFFICIENCY					
Max. Efficiency	98.3%		98.4%		
Europe Efficiency	97.8%		98.0%		
PROTECTION					
DC Switch	Support				
Anti-Islanding Protection	Support				
AC Overcurrent Protection	Support				
AC Short Circuit Protection	Support				
DC Reverse Connection	Support				
Surge Arrester	AC Type III / DC Type III				
Insulation Detection	Support				
Leakage Current Protection	Support				
GENERAL					
Topology	Transformer-less				
IP Rating	IP66				
Night Self Consumption	<1W				
Cooling	Natural Cooling		Fan Cooling		
Operating Temperature Range	-25°C to 60°C				
Relative Humidity Range	0-100%				
Max. Operating Altitude	4000m				
Noise(typical)	<30dB		<45dB		
Dimensions (W*H*D)	398mm*460mm*190mm				
Weight	18.7 Kg	20.1 Kg	20.3 Kg	21.5 Kg	
HMI & COM					
Display	Wireless & APP+LED, LCD				
Communication	RS485, Optional : WiFi /4G/LAN				
CERTIFICATION					
Safety	IEC62109-1, IEC62109-2				
EMC	IEC61000				
Grid Code	IEC61727, IEC62116, IEC60068, 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.

