



Suitable for Residential Rooftop Solar Projects

Three Phase – Dual MPPT

Models : PSIT-5K-SM2 | 6K-SM2 | 8K-SM2 | 10K-SM2

Leading Features

Superior Efficiency

Maximum Efficiency 98.2%
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-5K-SM2 | 6K-SM2 | 8K-SM2 | 10K-SM2

TECHNICAL SPECIFICATIONS					
Model	PSIT-5K-SM2		PSIT-6K-SM2	PSIT-8K-SM2	PSIT-10K-SM2
Rating	5 kW		6 kW	8 kW	10 kW
INPUT (PV)					
Max. Input Voltage	1100V				
Max. PV configuration (STC)*	150%				
Rated Input Voltage	620V				
Max. Input Current	15A+15A				
Max. Short Circuit Current	20A+20A				
Start Input Voltage	180				
MPPT Operating Voltage Range	160-1000Vdc				
Full Power MPPT Voltage	170V-850V	210V-850V		270V-850V	340V-850V
Max. Number of PV Strings	1/1				
No. of MPPTs	2				
OUTPUT (GRID)					
Rated AC Active Power	5000W	6000W	8000W	10000W	
Max. AC Apparent Power	5500VA	6600VA	8800VA	11200VA	
Max. AC Active Power (PF=1)	5500W	6600W	8800W	11000W	
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*17A	
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	<0.5% @ Rated Current				
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8 Lagging)				
EFFICIENCY					
Max. Efficiency	98.2%				
Europe Efficiency	97.8%				
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				
Operating Temperature Range	-25° to 60°				
Relative Humidity Range	0-100%				
Max. Operating Altitude	4000m				
Noise	<30dB				
Dimensions (W*H*D)	398mm*460mm*190mm				
Weight	16.8 Kg				
HMI & COM					
Display	Wireless & APP+LED, LCD				
Communication	RS485, Optional : Wi-Fi / 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.

