



Suitable for Residential Rooftop Solar Projects

Three Phase – Single MPPT

Models : PSIT5KSM1R2 | 6KSM1R2 | 8KSM1R2 | 10KSM1R2

Leading Features

Superior Efficiency

Maximum Efficiency 97.8%
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

TECHNICAL SPECIFICATIONS				
Model	PSIT5KSMIR2	PSIT6KSMIR2	PSIT8KSMIR2	PSIT10KSMIR2
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	20A			
Max. Short Circuit Current	30A			
Start Input Voltage	180V			
MPPT Operating Voltage Range	160V - 1000V			
Full Power MPPT Voltage	260V-850V	310V-850V	410V-850V	520V-850V
Max. Number of PV Strings	1			
No. of MPPTs	1			
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	97.8%			
Europe Efficiency	96.2%	96.5%	96.9%	97.1%
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°C to 60°C			
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	Optional: WiFi/GPRS/RS485/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.

