

Grid Tie Solar Inverter



Suitable for Residential Rooftop Solar Projects

Three Phase – Single MPPT

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

Leading Features

Superior Efficiency

Maximum Efficiency up to 97.8%
Maximum String Current, Compatible with 600W+ Modules
150% PV Configuration

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 & SINGLE MPPT

PSIT5KSMIR2 | 6KSMIR2 | 8KSMIR2 | 10KSMIR2

TECHNICAL SPECIFICATIONS				
Model	PSIT5KSM1R2	PSIT6KSM1R2	PSIT8KSM1R2	PSIT10KSM1R2
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			
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.

