

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.



Grid Tie Solar Inverter



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 up to 98.2%
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 & 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			
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.



Grid Tie Solar Inverter



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 up to 98.4%
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 & 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				
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.

