



Suitable for Residential Rooftop Solar Projects under the PM Surya Ghar: Muft Bijli Yojana

Single Phase – Single MPPT

Models : PSIS-4K6 | 5K0 | 5K5 | 6K0

Leading Features

Superior Efficiency

Maximum Efficiency 97%
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

SINGLE PHASE & SINGLE MPPT PSIS-4K6 | 5K0 | 5K5 | 6K0

TECHNICAL SPECIFICATIONS				
Model	PSIS-4K6	PSIS-5K0	PSIS-5K5	PSIS-6K0
Rating	4.6 kW	5 kW	5.5 kW	6 kW
INPUT (PV)				
Max. Input Voltage	550V			
Max. PV configuration (STC)*	150%			
Rated Input Voltage	360V			
Max. Input Current	20A			
Max. Short Circuit Current	30A			
Start Input Voltage	50V			
MPPT Operating Voltage Range	40-540Vdc			
Full Power MPPT Voltage	240V-500V	260V-500V	290V-500V	320V-500V
Max. Number of PV Strings	1			
No. of MPPTs	1			
OUTPUT (GRID)				
Rated AC Active Power	4600W	5000W	5500W	6000W
Max. AC Apparent Power	5060VA	5500VA	6050VA	6600VA
Max. AC Active Power (PF=1)	5060W	5500W	6050W	6600W
Max. AC Output Current	23A	25A	27.5A	30A
Rated AC Voltage	220V/230V/240V, L+N+PE			
AC Voltage Range [®]	160V-300V (Adjustable)			
Rated Grid Frequency	50Hz / 60Hz			
Grid Frequency Range [®]	45Hz-55Hz / 55Hz-65Hz (Adjustable)			
THDi	<3% (Rated Power)			
DC Current Injection	<0.5%In			
Power Factor	> 0.99 Rated Power (Adjustable 0.8 LD - 0.8 LG)			
EFFICIENCY				
Max. Efficiency	97%			
Europe Efficiency	96.2%	96.3%	96.3%	96.3%
PROTECTION				
DC Switch	Support			
Anti-Islanding Protection	Support			
AC Overcurrent Protection	Support			
AC Short Circuit Protection	Support			
DC Reverse Connection	Support			
Surge Arrester	DC/AC Type II			
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(typical)	30dB			
Dimensions (W*H*D)	297mm*282mm*145mm			
Weight	6.5 Kg			
HMI & COM				
Display	Wireless & APP+LED, LCD			
Communication	Wi-Fi (inbuilt), LAN/4G (Optional)			
COM1 Interface	USB			
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.

