



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

Single Phase – Single MPPT

Models : PSIS-1K0 | 2K0 | 3K0 | 3K6 | 4K0

Leading Features

Superior Efficiency

Maximum Efficiency 97.2%
String Current 20A
Compatible with High Power TOPCon Modules

High Reliability

IP66 Waterproof and Dustproof
DC / AC Inbuilt 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-1K | 2K | 3K | 3.6K | 4K

TECHNICAL SPECIFICATIONS					
Model	PSIS-1K0	PSIS-2K0	PSIS-3K0	PSIS-3K6	PSIS-4K0
Rating	1 kW	2 kW	3 kW	3.6 kW	4 kW
INPUT (PV)					
Max. Input Voltage	550V				
Max. PV Configuration (STC)	150%*				
Rated / Nominal 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	55V-500V	110V-500V	160V-500V	190V-500V	210V-500V
Max. Number of PV Strings	1				
No. of MPPTs	1				
OUTPUT (GRID)					
Rated AC Active Power	1,000W	2,000W	3,000W	3,600W	4,000W
Max. AC Apparent Power	1,100VA	2,200VA	3,300VA	3,960VA	4,400VA
Max. AC Active Power (PF=1)	1,100W	2,200W	3,300W	3,960W	4,400W
Max. AC Output Current	5A	10A	15A	18A	20A
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	96.5%		97.1%		97.2%
Europe Efficiency	93.0%	95.2%	95.9%	96.1%	96.2%
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)	271mm*256mm*135mm				
Weight	4.4 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.

