



Connection Zindagi Ka

SOLAR

SOLAR GRID - TIE STRING INVERTER SINGLE PHASE



Solar Grid - Tie String Inverter 1/1.5/2/3/4/5 KW (4G Series)

LEADING FEATURES

- More reliable & efficient with world class components for 20 years design life
- High frequency switching technology
- Low start-up voltage & ultra wide MPPT range for more power generation
- Multiple protection levels
- THDi <3%
- Max. efficiency 98.1%
- Built-in export power management for export control
- IP65 for outdoor installation
- Compact size & light weight design for single person easy installation
- RS-485; Wi-Fi/GPRS/LAN interface
- Free remote monitoring on web portal & mobile app
- 5 years standard warranty
- Extendable upto 20 years

SOLAR GRID-TIE STRING INVERTERS

TECHNICAL SPECIFICATIONS						
MODEL	PSIS- 1K	PSIS- 1.5K	PSIS- 2K	PSIS- 3K	PSIS- 4K	PSIS- 5K
RATING	1 KW	1.5 KW	2 KW	3 KW	4 KW	5 KW
INPUT DC						
Max. DC Input Power (kW)	1.2	1.8	2.3	3.5	4.6	5.8
Max. DC Input Voltage (V)	600					
Start-Up Voltage (V)	60		90		120	
MPPT Voltage Range (V)	50 - 500		80 - 500		90-520	
Max. Input Current (A)	11			11 + 11		
Max Short Circuit Current for each MPPT (A)	17.2			17.2+17.2		
MPPT Number / No. of Strings per MPPT	1 / 1			2 / 1		
OUTPUT AC						
Rated Output Power (kW)	1	1.5	2	3	4	5
Max. Apparent Output Power (kVA)	1.1	1.7	2.2	3.3	4.4	5
Max. Output Power (kW)	1.1	1.7	2.2	3.3	4.4	5
Rated Grid Voltage (V)	220 / 230					
Grid Voltage Range (V)	160 - 285 (Adjustable)					
Rated Grid Frequency (Hz)	50/60					
Grid Frequency Range (Hz)	47-52 or 57-62					
Operation Phase	Single					
Rated Grid Output Current (A)	4.5/4.3	6.8/6.5	9.1/8.7	13.6/13	18.2/17.4	22.7/21.7
Max. Output Current (A)	5.2	8.1	10.5	15.7	21	25
Power Factor (at rated output power)	0.8 leading ..1.. 0.8 lagging					
THDi (at rated output power)	<3%					
DC Injection Current (mA)	< 0.5% In					
EFFICIENCY						
Max. Efficiency	97.2%			97.5%	98.1%	
EU Efficiency	96.5%			96.8%	97.3%	
MPPT Efficiency	>99.5%					
PROTECTIONS						
Built-in Protections	DC Reverse Polarity, Short Circuit Protection, Output Over Current, Output Over Voltage, Insulation Resistance Monitoring, Residual Current Detection, MOVs for Surge Protection on DC & AC sides, Grid Monitoring, Islanding Protection, Temperature Protection					
GENERAL DATA						
Dimension (mm)	310W*373H*160D				310W*543H*160D	
Weight (kg)	7.4			7.7	11.5	
Topology	Transformerless					
Self Consumption (watt)	< 1 (Night)					
Operating Ambient Temperature Range	-25 ~ 60 °C					
Relative Humidity	0~100%					
Ingress Protection	IP65					
Noise Emission {typical}	<20 dBA					
Cooling Concept	Natural Convection					
Max. Operation Altitude	4000m					
Design life	> 20 Years					
FEATURES						
DC Connection	MC-4 mateable					
AC Connection	IP 67 Rated Plug					
Display	LCD 2x20 Z					
Communication Connections	4 pin RS485 connector					
Monitoring	WiFi / GPRS / LAN					
Warranty	5 Years Standard (Extendable upto 20 years)					
IEC CERTIFICATES						
Grid Connection	IEC 61727					
Anti-Islanding Protection	IEC 62116					
Environmental Testing	IEC 60068-2 (1-2-14-27-30-64)					
Safety	IEC 62109-1, IEC 62109-2, EN62109-1, EN62109-2					
EMC	IEC 61000, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4			EN 61000-6-2, EN 61000-6-3		
Efficiency Measurement	IEC 61683, EN50530					

Note: Specifications are subject to change

Corporate Office:

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