



SUNSHAKTI 2.0 GRIDTIE INVERTER

SINGLE PHASE | 1 MPPT

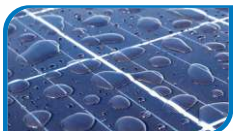
Leading a New Start



SHAKTI

THE POWER OF INNOVATION, EFFICIENCY & TECHNOLOGY.

Key Features



DUST & RAIN PROOF
IP 65 DESIGN



USER FRIENDLY
LCD DISPLAY



INTELLIGENT DIGITAL
CONTROL



POWERED WITH REMOTE
MONITORING SYSTEM



GPRS & BLUETOOTH
CONNECTIVITY



SUNSHAKTI 2.0 GRIDTIE INVERTER

ABOUT THE PRODUCT

Sun Shakti Grid-Tie Inverter is a high performance, transformer-less, high switching frequency based grid-tie Inverter with IP 65 ingress protection. The Grid-Tie Inverter's digital control coordinates with PV source and ensures maximum energy harvesting from it. This system comes with unique user experience where it can be controlled and monitored by Shakti RMS mobile app. The system is also equipped with GSM/GPRS for remote communication.

APPLICATION

Rooftop solar installation and Grid Tie Inverter in domestic, small and big establishment.

FEATURES

- 100% in-house manufactured.
- Innovative design & developed by Shakti Team.
- Plug & play shock proof unique connections.
- In-built PV insulation protection.
- Feeds power to the grid.
- Simple installation & operations.
- Suitable for outdoor installation.
- IP 65 ingress protection design.
- Graphical LCD display for easy monitoring.
- Wireless connectivity via Bluetooth and GPRS/WiFi.

BENEFITS

- Environment friendly.
- Lower Energy Cost.

PROTECTION

- DC Reverse Polarity.
- Grid Monitoring.
- Short Circuit.
- Over Temperature.
- Integrated DC Switch.*
- Output Over Current.
- Insulation Resistance Detection.
- Residual Current Monitoring Unit.
- Surge Protection AC Side.
- Anti-Islanding.

* Optional

All specifications and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market requirements and regulations.

TECHNICAL SPECIFICATION

Model Name	SSG 1P 1kW	SSG 1P 2kW	SSG 1P 3kW	SSG 1P 3.3 kW
INPUT PV DATA				
Maximum PV Power	1200 W	2400 W	3300 W	3600W
Maximum PV Voltage	510 VDC			
PV Startup Voltage	80 VDC			
Max. PV Current	1 x 16 A			
Max PV Isc Current	18 A			
MPPT Range	110 - 415 VDC			
Nominal PV Voltage	400 VDC			
Peak MPPT Efficiency	> 99%			
Number of PV Inputs	1			
OUTPUT AC DATA				
Rated Output Power	1000 W	2000 W	3000 W	3300 W
Max. Output Power	1100 W	2200 W	3300 W	3300 W
Rated Grid Voltage	230 V 1L/N/PE			
Rated Grid Frequency	50/60 Hz			
Rated Grid Current	4.5 A	9 A	13.5 A	14.5 A
Max. Grid Current	5 A	10 A	15 A	15 A
Power Factor	0.8 leading ~ 0.8 lagging			
Total Harmonic Distortion	< 5% (at nominal power)			
EFFICIENCY				
Max. Efficiency	> 93%	> 95%	> 96%	> 95%
DISPLAY & COMMUNICATION				
Display Type	Graphical LCD			
Status Indicator	LEDs			
Serial Communication	RS232 / UART			
Remote Monitoring	Yes(Optional)			
WiFi	Yes(Optional)			
OTHER INFO				
LXWXH	265 X 336 X 167mm ³			
Gross Wt.	Approx 10.5 kg			
Topology	Transformer less 2 leg Inverter			
Pollution Degree	PD3			
Over Voltage Category	PV OVC II/Grid OVC III			
Protection Class	Class I			
Operating Temperature	-25 to 60 °C			
Relative Humidity	0~95% RH(Non-Condensing)			
Altitude	2000 m			
Environmental	Indoor & Outdoor Installation			
IP Degree of Protection	IP 65			
Cooling	Natural Convection			
Standards	IS 16221(Part-2),IEC60529,IEC62109, IEC62116,IS16169			



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