



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 | | | |



India : Toll Free No. 1800 103 5555

Other Countries : +91-7292 410500

SHAKTI PUMPS (INDIA) LIMITED

CIN : L29120MP1995PLC009327 | Web: www.shaktipumps.com | E-mail: info@shaktipumps.com, sales@shaktipumps.com

Corporate Office : Plot No. C-04, Silver Spring, Phase-2, Business Park, By-Pass Road, Opp D Mart, Indore-452020. (M.P.) INDIA. Tel.: +91 731 3635000

Regd. Office / Factory Add. : Plot No. 401, 402 & 413, Industrial Area, Sector - 3, Pithampur-454774, Dist. Dhar (M.P.) INDIA. Tel.: +91 7292 410500

Authorised Dealer / Distributor :

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