



SUNSHAKTI GRIDTIE INVERTER

1-6 kW | SINGLE PHASE | 2 MPPT

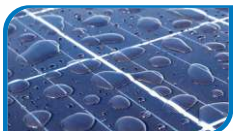
Leading a New Start



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/WiFi ENABLED &
BLUETOOTH CONNECTIVITY



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 and WiFi modules for remote communication.

APPLICATION

Roof top solar installation & grid-tie inverter in domestic, small & big commercial establishments.

BENEFITS

- Smooth operation
- IP 65 ingress protection design
- Graphical LCD display for easy monitoring
- Wireless connectivity via Bluetooth and GPRS/WiFi

FEATURES

- Plug & play shock proof unique connections
- In-built PV insulation protection
- Feeds power to the grid
- Simple installation & operation
- Suitable for outdoor installation
- In-built surge protection

TECHNICAL SPECIFICATION

Technical Data	Model Name	SSG 1P 1kW	SSG 1P 2kW	SSG 1P 3kW	SSG 1P 3.3kW	SSG 1P 4kW	SSG 1P 5kW	SSG 1P 6kW
	Model No.	9000029600	9000029601	9000029602	9000030647	9000029603	9000029604	9000029605
INPUT PV DATA								
Maximum PV Power		1200 W	2400 W	3600 W	3600 W	4800 W	6000 W	7200 W
Maximum PV Voltage		510 VDC						
PV Start Voltage		110 VDC				150 VDC		
Max. PV Current		1 X 13 A				2 X 13 A		
Max PV Isc Current		14 A						
MPPT Range		170-415 VDC						
Nominal PV Voltage		300 VDC						
Peak MPPT Accuracy		> 99.5 %						
Number of PV Inputs		1				2		
OUTPUT AC DATA								
Rated Output Power		1000 W	2000 W	3000 W	3300 W	4000 W	5000 W	6000 W
Max. Apparent Power		1100 VA	2200 VA	3300 VA	3300 VA	4400 VA	5500 VA	6600 VA
Max. Output Power		1100 W	2200 W	3300 W	3300 W	4400 W	5500 W	6600 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	18 A	22.5 A	27 A
Max. Grid Current		5 A	10 A	15 A	15 A	20 A	25 A	30 A
Power Factor		0.8 leading ~ 0.8 lagging						
Total Harmonic Distortion		< 5% (at nominal power)						
EFFICIENCY								
Max. Efficiency		94%	95%	96%	96%	96%	96%	96%
Euro Efficiency (at 600VDC)		93%	94%	95%	95%	95%	95%	95%
PROTECTION								
DC Reverse Polarity		YES						
Grid Monitoring		YES						
Shortcircuit		YES						
Over Temperature		YES						
Integrated DC Switch		YES						
Output Over Current		YES						
Insulation Resistance Detection		YES						
Residual Current Monitoring Unit		YES						
Surge Protection DC Side		YES						
Surge Protection AC Side		YES						
Anti-Islanding		YES						
DISPLAY & COMMUNICATION								
Display Type		Graphical LCD						
Status Indicator		LEDs						
Serial Communication		RS232						
Remote Monitoring		Yes(Optional)						
WiFi		Yes(Optional)						
OTHER INFO								
L X W X H		475 X 400 X 185 mm³				574 X 443 X 210 mm³		
Net Wt./ Gross Wt.		13Kg/15Kg				23Kg/25Kg		
Topology		Transformer less 2 leg Inverter						
Pollution Degree		PD3						
Over Voltage Category		PV OVC II / Grid OVC III						
Protection Class		Class I						
Operating Temperature		-10 to 50 °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		IEC62109-1/2, IEC61683, IEC60068-2-(1,2,14,30), IEC60529, IEC62116, IEC61727						

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. A pump system consists of a controller, motor and pump end.



India : Toll Free No. 1800 103 5555

Other Countries : +91-7292 410500

SHAKTI PUMPS (INDIA) LIMITED

Plot No. 401, 402, & 413, Industrial Area, Sector - 3, Pithampur - 454774,

Dist. - Dhar, (M.P.) - INDIA, E-mail: info@shaktipumps.com,

Visit us at : www.shaktipumps.com

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