



KALPAVRIKSHA GRIDTIE INVERTER

3-10 kW | 3 PHASE | 2 MPPT

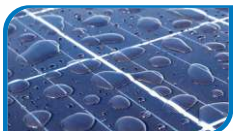
Leading a New Start



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

Kalpavriksha 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
- 5 years cumulative data storage capacity
- In built in DC switch

TECHNICAL SPECIFICATION

Model Name	SKG 3P 3kW	SKG 3P 3.3kW	SKG 3P 4kW	SKG 3P 5kW	SKG 3P 6kW	SKG 3P 8kW	SKG 3P 10kW
Model No.	900009606	9000030147	9000029607	9000029608	9000029609	9000029610	9000029611
Technical Data							
PV INPUT							
Maximum PV Power	3600W	3960W	4800W	6000W	7200W	9600W	12000W
Maximum Input Voltage	770 VDC						
PV Start Voltage	220 VDC						
Max. PV Current	1X10 A				2x10A		
MPPT Range	250 - 650 VDC						
Nominal PV Voltage	620 VDC						
Peak MPPT Accuracy	>99.5%						
Number of PV Inputs	1				2		
OUTPUT AC DATA							
Rated Ouput Power	3000W	3300W	4000W	5000W	6000W	8000W	10000W
Max. Apparent Power	3300VA	3630VA	4400VA	5500W	6600VA	8800VA	11000VA
Max. Output Power	3300W	3630W	4400W	5500W	6600W	8800W	11000W
Rated Grid Voltage	3/N/PE,220 V/380 V,230V/400 V						
Rated Grid Frequency	50 Hz/60 Hz						
Rated Grid Current	4.6A/ 4.3A	5.29A/5.5A	6.1A/5.8A	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2/14.4A
Max. Grid Current	4.8A	5.8A	6.4A	7.9A	9.5A	12.7A	16A
Power Factor	0.8 leading ~ 0.8 lagging						
Total Harmonic Distortion (THDi)	<3% (at nominal power)						
EFFICIENCY							
Max. Efficiency	96.20%	96.80%	97.00%	97.20%	96.50%	97.20%	97.50%
Euro Efficiency	95.00%	95.60%	96.00%	96.20%	95.50%	96.20%	96.50%
PROTECTION							
DC Reverse Polarity	YES						
Grid Monitoring	YES						
Shortcircuit	YES						
Overtemperature	YES						
Integrated DC switch	YES						
Output Over Current	YES						
Insulation Resistor 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	584.5 x 444.5 x 230 mm3						
Net Wt. / Gross Wt.	26kg/30kg						
Topology	Transformer less 3 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						
IP Degree of Protection	IP 65 (Indoor & Outdoor Installation)						
Cooling	Natural Convection						
Standards	IEC62109-1/2, IEC61683, IEC60068-2-(1,2,14,30), IEC 60529, IEC 62116, IEC 61727						

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.



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