



# KALPAVRIKSHA GRIDTIE INVERTER

3-10 kW | 3 PHASE | 2 MPPT

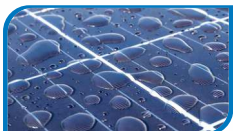
Leading a New Start



## 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

Rating	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Technical Data	9000029606	9000029607	9000029608	9000029609	9000029610	9000029611
INPUT PV DATA						
Maximum PV Power	3600W	4800W	6000W	7200W	9600W	12000W
Maximum Input Voltage	800VDC					
PV Start Voltage	200 VDC					
Max. PV Current	10 A			2X10 A		
MPPT Range	250 - 650 VDC					
Nominal PV Voltage	620 VDC					
Peak MPPT Accuracy	> 99.5%					
No. of PV Inputs/ No. of MPPT Trackers	1/1			2/2		
String per MPPT Trackers	1			1+1		
OUTPUT AC DATA						
Rated Output Power	3000W	4000W	5000W	6000W	8000W	10000W
Max. Apparent Power	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA
Max.Output Power	3300W	4400W	5500W	6600W	8800W	11000W
Rated Grid Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V					
Rated Grid Frequency	50 Hz / 60 Hz    ± 2%					
Rated Grid Current	4.6A/ 4.3A	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	6.4A	7.9A	9.5A	12.7A	15.9A
Power Factor	0.8 leading~0.8 lagging					
Total Harmonic Distortion (THDi)	< 3% (at nominal power)					
EFFICIENCY						
Max. Efficiency	96.2%	97.0%	97.2%	96.5%	97.2%	97.5%
Euro Efficiency (at 600Vdc)	95.0%	96.0%	96.2%	95.5%	96.2%	96.5%
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 Uni	YES					
Surge Protection DC Side	YES ( Type 3 )					
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						
Dimension ( L X W X H )	584.5 x 444.5 x 182.4 mm			584.5 x 444.5 x 230 mm		
Net Wt. / Gross Wt.	23kg/27kg			26kg/30kg		
Topology	Transformer less 3 leg inverter					
Pollution Degree	PD3					
Over Voltage Category	Category II					
Protection Class	Class I					
Operating Temperature	-10 to 50 °C					
Relative Humidity	0~95% RH (Non-condensing)					
Altitude	3000 m ( > 2000 m power derating)					
IP Degree of Protection	IP 65 (Indoor & Outdoor Installation)					
Cooling	Natural Convection					
Standards	BIS, IEC62109-1/2, IEC61683, IEC60068-2-(1,2,14,30), IEC 60529, 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.



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