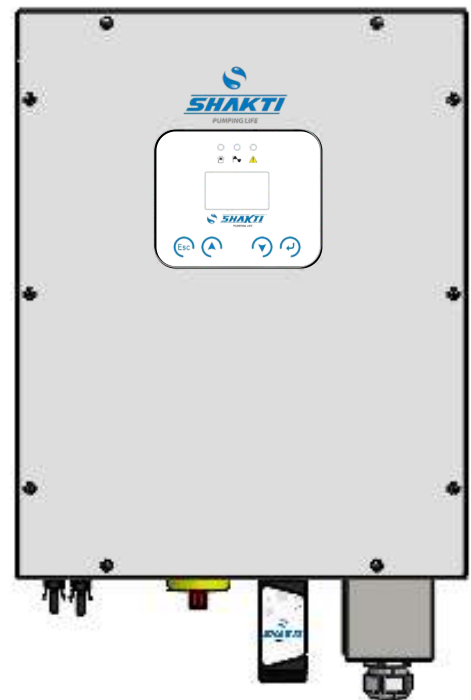




GARUDA GRID TIE INVERTER

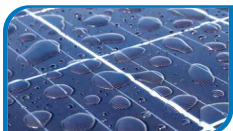
3 PHASE | 2 MPPT 20 kW



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

The Garuda Grid-Tie Inverter is a high-performance, transformer-less and high switching frequency based grid tie inverter designed for seamless integration with 3-phase grid systems with supporting capacities of up to 20 kW. With IP65 protection, it ensures efficiency, reliability, and durability. The Grid-Tie Inverter's digital control coordinates with the PV source and ensures maximum energy harvesting. This system offers a unique user experience, allowing control and monitoring via the Shakti RMS mobile app. The system is also equipped with GSM/GPRS and WiFi modules for remote communication

APPLICATION

Rooftop solar installation and grid-tie inverter for domestic, small, and large commercial establishments.

BENEFITS

Environment friendly.
Lower energy cost.

FEATURES

- Plug & play shock-proof unique connections.
- In-built PV insulation protection.
- Feeds power to the grid.
- Simple installation & operation.
- In-built surge protection.
- Graphical LCD display for easy monitoring.
- Wireless connectivity via Bluetooth and GPRS/WiFi.
- In-built DC switch.

TECHNICAL SPECIFICATION

Parameters	GARUDA
PV INPUT	
PV Voltage Range	200-900 VDC
Max PV Current	40 A
MPPT Range	250-800 VDC
Nominal PV Voltage	660 V
Number of PV Inputs	2
Max PV Power	20000W
PV Start Voltage	200 V
GRID TIE OUTPUT	
Voltage Range	330 – 460 V _{LL} AC
Topology	Transformer-less Three Phase Multilevel Inverter
Rated AC Power (230V, 50Hz)	19.99 KW
Max Grid Current	32A
Nominal Frequency	50/60Hz
Power Factor , adjustable	0.9 leading – 0.9 lagging
Peak MPPT accuracy	>99%
Feed-in Grid	3L+PE
Total Harmonic Distortion	< 5% (at nominal power)
Peak Efficiency	>97.5%
Protection	Anti islanding, Grid monitoring, Short circuit, Over voltage, Over temperature, Overload etc.
DISPLAY & COMMUNICATION	
Display type	Graphical LCD
Status Indicator	LEDs
Serial Communication	RS232 (MODBUS)
Remote monitoring	YES(Optional)
Wi-Fi	YES(Optional)
PHYSICAL	
L X W X H	640mm X 417mm X 248 mm
Gross wt.	Approx 30 kg
OTHER INFO	
Pollution Degree	PD3
Over Voltage Category	Category II
Protection Class	Class I
Operating Temperature	-25 TO 60 °C
Relative Humidity	0-95% RH(Non-condensing)
Altitude	3000 m (>2000m power derating)
IP Degree of Protection	IP 65 (Indoor & Outdoor Installation)
Cooling	Air forced



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Authorised Dealer / Distributor :