



## Shakti **SOLAR ROOFTOP SOLUTION**

Harness the power of the Sun, for a brighter future



### Shakti Energy Solutions

**Made In India. Made For India**

Shakti Energy Solutions Ltd. (SESL) is leading the transformation in the solar rooftop solutions landscape for homes and businesses. We are the only brand to offer all three essential components, **Solar Modules, Inverters, and Module Mounting Structures**, under one roof. This ensures unmatched quality, seamless integration, and long-lasting performance. It also offers greater reliability, quick delivery, cost-effectiveness and more efficiency.



## Solar PV Modules

### The power of the Sun, at your command

Solar PV Modules are unmatched when it comes to high performance, durability, and reliability. These photovoltaic panels actively convert sunlight into electricity, offering an efficient and eco-friendly energy solution. Ideal for diverse power applications, their cutting edge technology and superior design is helping simplify solar adoption.



## Solar Modules Advantages



### Maximum Savings\*

Save up to 80% on electricity bills with returns in just 3-4 years



### Minimal Maintenance

Durable panels with low upkeep requirements and quick service support



### Enhanced Safety

In-built PV insulation protection ensures safe and reliable operations



### BIS-certified & ALMM-listed

Featuring DCR cell based solar modules with adherence to Make In India initiative of the Govt. of India

\*T&C- Performance subject to cleanliness/maintenance

# Sunshakti Inverter

## Innovation powered by next-gen tech

A high performance, transformer-less, high switching frequency-based grid-tie Inverter with IP 65 ingress protection. The Inverter's digital control ensures maximum energy harvesting from the solar panel. This system can be controlled and monitored by Shakti RMS mobile app and is equipped with GSM/GPRS for remote communication.



\*For technical specifications, please refer to the back page

## Unstoppable, uninterrupted power



### Dust & Water Proof Design

IP65-rated enclosure ensures reliable outdoor performance in challenging weather conditions, reducing maintenance needs.



### Advanced Digital Control

Smart control technology maximizes energy harvest and maintains smooth, uninterrupted power flow.



### User-Friendly Display

LCD interface simplifies system monitoring and control for users of all levels.



### Remote Connectivity

GPRS and Bluetooth integration allows real-time tracking and remote system access via the Shakti RMS app.



### Easy Installation

Plug-and-play setup with shockproof connections speeds up installation and improves safety.



### Transformer-Less Design

High-performance configuration improves efficiency and saves space, supporting sleek system integration.



### Robust Protection Mechanism

Built-in features like surge protection and reverse polarity detection safeguard the system and enhance longevity.



### Eco-Friendly Power Management

Capability to feed surplus energy back to the grid promotes sustainability and cost savings.



## Module Mounting Structures

### Built for strength, designed for efficiency

Shakti's Solar Module Mounting Structures are engineered to perfection, offering robust design, unmatched durability, and efficient space utilization. From design to installation, our mounting solutions ensure your solar system stands strong against all environmental challenges while optimizing energy output.



### Strength that endures



#### Robust & Aesthetic Design

Sleek, zero-welding structure enhances rooftop aesthetics while offering reliable durability.



#### Corrosion Resistance

Built with anodized aluminium and galvanized fasteners to withstand corrosive environments and extend product life.



#### Maximum Space Utilization

Elevated design (up to 6 ft clearance) allows optimal rooftop use and improved airflow.



#### Seasonal Tracking Compatibility

Design supports seasonal adjustments, increasing overall solar energy output.



#### High Wind Resistance

Engineered to endure wind speeds up to 150 km/h, ensuring stability during storms and extreme weather.



#### Lightweight Yet Strong Materials

High strength-to-weight ratio reduces roof load while maintaining structural integrity.



#### Easy Installation & Maintenance

Simplified setup and easy-to-clean surfaces save time and labor, keeping the system efficient with minimal effort.

## Avail subsidy on Solar Rooftop

Under the aegis of PM Surya Ghar Muft Bijli Yojana, any residential consumer can avail applicable subsidy on Solar Rooftop Systems. Visit <https://pmsuryaghar.gov.in/> and follow the simple steps to register yourself.



PM-सूर्य घर मुफ्त बिजली योजना

# Partner with us for a bright future

## It's a win-win every step of the way

With the consciousness about being pro-planet and sustainability rising, there is great interest in alternate sources of energy, with solar energy leading the way. Shakti Energy Solutions remains dedicated to this vision, as part of a group recognized as a pioneer in the water pump industry. Now, with its Solar Rooftop Solutions, it aims to be the numero uno in the household power generation space.

## Get the Shakti edge



**Hassle-free  
installation**



**Pre-assembled kits  
for quick setup**



**Faster deployment,  
stronger support**



**Step-by-Step  
guidance for dealers**



**Dedicated  
after-sales service**



**Higher savings,  
bigger profits**

## A legacy of excellence

**Proven Brand Legacy of  
Shakti Pumps**

**BIS-Certified Products**

**Heavy Government  
Subsidies & Incentives**

**Exporting to  
120+ Countries**

**Portfolio of Patents  
and Trademarks**

**Delivering Excellence  
Since 1982**



## Complete Solar Setup – Built for Maximum Output, Made for India



**Module**



**Inverter with RMS**

- Proudly Made in India
- Seasonal structure tracking
- Durable HDGI structure
- Compact inverter design
- Efficient solar solution

# Sunshakti Inverter

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	3000 W	3300 W
Maximum PV Voltage	510 VDC			
PV Start 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 Accuracy	> 99.5%			
Number of PV Inputs	1			
OUTPUT AC DATA				
Rated Output Power	1000 W	2000W	3000W	3300W
Max. Apparent Power	1100 VA	2200 VA	3300 VA	3300 VA
Max. Output Power	1100 W	2200W	3300W	3300W
Rated Grid Voltage	230 V 1L/N/PE			
Rated Grid Frequency	50/60 Hz			
Rated Grid Current	4.5 A	9A	13.5A	14.5A
Max. Grid Current	5A	10A	15A	15A
Power Factor	0.8 leading~0.8 lagging			
Total Harmonic Distortion	< 5% (at nominal power)			
EFFICIENCY				
Max. Efficiency	94%	95%	96%	96%
Euro Efficiency (at600DC)	93%	94%	95%	95%
DISPLAY & COMMUNICATION				
Display Type	Graphical LCD			
Status Indicator	LEDs			
Serial Communication	RS232			
Remote Monitoring	Yes(Optional)			
WiFi	Yes(Optional)			
OTHER INFO				
Gross Wt.	8Kg			
Topology	Transformer less 2 leg Inverter			
pollution Degree	PD3			
Over Voltage Category	PV OVC II/Grid OVC III			
Protection Class	Class1			
Operating Temperature	-25 to 60 °C			
Relative Humidity	O~95% RH (Non-Condensing)			
Altitude	2000m			
Environmental	Indoor & Outdoor Installation			
IP Degree of Protection	IP65			
Cooling	Natural Convection			

## SHAKTI ENERGY SOLUTIONS PVT. LTD

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