



Divya Hi-Tech Solar Project
Pvt.Ltd.

Hybrid Solar Energy Storage Systems

A Sustainable Solution for Modern Energy Needs





Divya Hi-Tech Solar Project Pvt. Ltd.

Pioneering the future of renewable energy with innovative solar solutions. We empower homes and businesses with reliable, efficient, and eco-friendly power generation.



Introducing **ZEN STORE** - 1

Our flagship hybrid energy storage system, designed for optimal performance and seamless integration.

Unlocking the Power of Hybrid Solar

Hybrid solar energy systems combine solar panel electricity generation with battery storage, offering continuous power supply day and night. This integrated approach ensures energy independence and grid stability.



During the day, solar panels capture sunlight, converting it into electricity. This power can be used immediately or stored in batteries for later.

When solar production is low, like at night or on cloudy days, the stored energy is discharged, providing an uninterrupted power supply.

Excess energy can also be fed back into the grid, potentially earning credits.

Core Components of Our Systems

Each DivyaHi-Techhybridsystemisengineeredwith advanced componentsto maximizeefficiencyandreliability.



Solar PV Panels

High-efficiency modules designed to capture maximum sunlight and convert it into clean electricity.



Hybrid Inverter

Intelligently manages power flow from solar, battery, and grid, optimizing energy usage.



Battery Storage

Robust, long-lasting batteries store excess solar energy for use during peak demand or outages.



Smart Energy Meter

Monitors energy consumption and generation, providing real-time data for informed decisions.

Key Benefits of Hybrid Solar Energy

Enhanced Reliability

Enjoy uninterrupted power, even during grid outages, ensuring continuous operation for homes and businesses.

Reduced Energy Costs

Minimize reliance on grid electricity and take advantage of stored solar energy during expensive peak hours.

Environmental Impact

Significantly lower your carbon footprint by utilizing clean, renewable energy and reducing fossil fuel consumption.

Energy Independence

Gain greater control over your energy supply and protect yourself from fluctuating utility rates and grid instability.

Versatile Applications

Divya Hi-Tech's hybrid solar systems are designed to cater to a diverse range of energy needs across various sectors.



Residential Homes

Ensure consistent power for your family, reduce utility bills, and increase property value with a reliable home energy solution.



Commercial Buildings

Optimize operational costs, improve energy efficiency, and demonstrate sustainability to clients and stakeholders.



Industrial Facilities

Power critical operations, reduce demand charges, and secure energy supply for manufacturing and heavy industries.

ZEN STORE - 1: Our Flagship Solution

The ZEN STORE -1 is engineered for peak performance, combining state-of-the-art technology with intuitive design.



Integrated Power Control

Seamlessly manages power generation, storage, and consumption with advanced AI algorithms.



High-Capacity Battery

Offers extended energy storage, providing resilience against grid failures and optimizing energy utilization.



Smart Monitoring

Intuitive interface for real-time performance tracking and remote control, accessible via mobile or desktop.



Enhanced Safety

Built-in protection features ensure reliable and safe operation, adhering to the highest industry standards.

Why Choose Divya Hi-Tech?

Our commitment to excellence and innovation makes us the ideal partner for your solar energy journey.



Expert Team

Our certified engineers and technicians bring years of experience to every project, ensuring optimal design and installation.



Cutting-Edge Technology

We utilize the latest advancements in solar and storage technology to deliver superior performance and longevity.



Dedicated Support

From initial consultation to after-sales service, we provide comprehensive support to ensure your satisfaction.



Sustainable Future

Join us in building a greener planet, one efficient and reliable solar installation at a time.



Our Expertise in Action

Divya Hi-Tech is dedicated to delivering tailored solutions, from meticulous planning to seamless execution and ongoing optimization.

Consultation & Design

Thorough site assessment and customized system design to meet specific energy requirements.

2

Installation & Integration

Professional installation and seamless integration of all components by our expert team.

3

Monitoring & Maintenance

Continuous performance monitoring and proactive maintenance to ensure system longevity and efficiency.

4

Support & Upgrades

Ongoing technical support and options for future upgrades to adapt to evolving needs.

Power Your Future With Divya Hi-Tech

Embrace energy independence and sustainability with our innovative hybrid solar solutions.

Contact Us Today

Ready to explore how hybrid solar can benefit you? Reach out for a personalized consultation.

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Divya Hi-Tech Solar Project Pvt. Ltd. | Innovating for a Brighter Tomorrow

BATTERY DETAILS

Basic Parameters	
Cell Technology	LiFePo4
Battery Module Capacity	5.4 KWh
Nominal Voltage	51.2V
Nominal Capacity	106 AH
Dimension (W*D*H)	435*480*162 mm
Weight	43.5 Kg
DOD	>90%
Max. Discharge Voltage	58.2 V
Cycle Life	5,000

DATASHEET

MODEL	3 KW	5 KW
PVSTRING INPUT DATA		
Max. PV Input Power	4680 W	6500 W
Max. PV Input Voltage	500 V	
PV Input Voltage Range	125-500 V	
MPPT Voltage Range	150-425 V	
Max. Operating PV Input Current	18 A + 18 A	
Max. Input Short-Circuit Current	27 A + 27 A	
No. of MPP Trackers/No. ofStringsMPPTTrackers	2/1+1	
AC INPUT/OUTPUT DATA		
Rated AcInput/OutputActivePower	3600W	5000W
Max. AC Input/Output Apparent Power	3960 VA	5500 VA
	230V	
	50 Hz	

BATTERY INPUT DATA		
Battery Type	LiFePo4	
Battery Voltage Range	40-60 V	
Max. Charging Current	90 A	120 A
Max. Discharging Current	90 A	120 A
No. of batteries(standard configuration)	1	2
No. of batteries at maximum capacity	4	
Maximum energy that can be stored at maximum capacity	21.7 KWh	
EFFICIENCY		
	97.60 %	
MPPT efficiency	>99%	
Max. efficiency		
PROTECTIONS		
Overload Protection	Yes	
Output short circuit Protection	Yes	

Overtemperature Protection	Yes	
AC Line Protection	AC MCB	
Battery Protection	DC MCB	
PV Side Protection	DC MCB + SPD	
INTERFACES		
Display	LCD+LED	
Communication Interface	RS232, RS485, CAN	
Monitor Mode	WiFi/GPRS/Bluetooth/4G/LAN(optional)	
GENERAL DATA		
Operating temperature Range	-5°C to 45°C	
Relative Humidity	0 to 95 %	
Installation environment	Indoor	
Assembly	On the floor	
IP Rating	IP20	
Weight	85 –232 Kg	122 –232 Kg
DimensionsW*H*D	554*1414*595 mm	