

Ai Based Solar Energy Driven Company

Company Profile



APS Solar

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ABOUT US

APS Solar is a division of Invenity Solutions Private Limited, which is a leading renewable energy company and led by an energetic team of highly qualified engineers, MBAs and leading scientists of India. APS Solar has its offices in Pune & Kolhapur.

We are focused on setting a new mark in high quality of renewable energy solutions by providing cutting edge of solar products. We trained and assist regional renewable energy companies & distributors across the globe to offer customizable and affordable solar solutions for homes & offices and commercial projects.

OUR VISION

Our people are our assets. Together with our global vision, research and experience, we deliver high quality and innovative solar solutions around the world. With well-establish teams in India we are on our way to becoming a dominant player in renewable energy sector not just in India, but also in other geographic regions.

OUR PRODUCTS

- 1. HYBRID INVERTERS**
- 2. DIRECT SOLAR POWER INVERTERS**
- 3. APS ONLINE SOLAR INVERTERS**
- 4. SOLAR WATER PUMP**
- 5. LITHIUM BATTERIES**
- 6. LEAD ACID BATTERIES**

Ai Based Solar Energy Driven Company

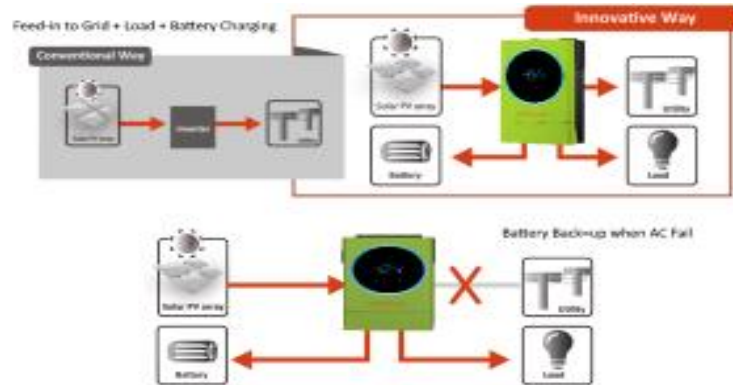
HYBRID INVERTERS:-

APS MPPT 5.6KW-48V SOLAR HYBRID INVERTER SYSTEM



APS MPPT 5.6kW-48V Solar Hybrid Inverter is a new generation, future ready inverter with a creative design and a big 4.3-inch LCD display with RGB LED ring and touch buttons. This robust solar inverter offers 40+ customizable settings, load sharing option between solar & grid or solar & battery and supports variety of batteries including lead acid, lithium ion & LiFePO4 batteries. This model also comes with wide MPPT range with up to 6kW PV output and comes with inbuilt solar generation kwh meter.

Net Metering Feature



Feed-in to Grid + Load + Battery Charging

APS MPPT converts the solar power generated to power the load and charge the batteries. All excess power generated will feed-in to the Grid if net metering is activated.

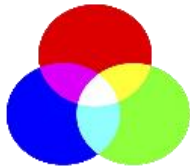
Battery Backup when AC Fail

If the Grid is not available, APS MPPT will continue to power the load directly from the solar power and the extra solar energy generated is used to charge the batteries.

Direct Power from



Solar

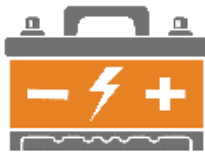


APS MPPT allows you to choose on how to power your loads: Either share loads between solar & utility or share loads between solar & battery. Intelligent system allows you to power load directly from solar power during the day time keeping grid and/or battery power only for back-up. Wide MPPT range (120 ~ 430 VDC) of the built-in solar charge controller offers more flexibility to the users and reduces installation costs.

Customizable Display with RGB LED Ring

APS MPPT comes with beautiful 4.3” LCD display with touch buttons. It offers three effects for lighting and several settings to custom set the RGB lights as per user preferences. LED ring lights-up in different colors to depict the operation mode, energy source, battery capacity and load level. The touch buttons on the display allow you to customize more than 40 settings to make the best use of your solar system.

Battery Compatibility



APS MPPT Inverter is future ready solar inverter. It can be used with or without batteries. It is compatible with variety of battery banks including Lead Acid, Lithium-Ion and LiFePO4 Batteries. The inbuilt RS485 communication port for connecting with battery bank BMS allows the battery to provide information like state of charge as well

as real-time control the charging or discharging of battery pack based on battery condition.

Specification

- Pure Sine Wave solar inverter with up-to 93% peak efficiency
- 4.3” large colored LCD Display with touch buttons & customizable LED Ring with RGB light
- Inbuilt kWh Meter and Grid Feed-in/Export option
- Selectable timer for grid charging
- Customizable supply priority and customer adjustable charging current and voltage
- Built in Wi-Fi monitoring via mobile app
- Communication port for BMS - RS485
- Compatible with Lead Acid, Lithium-Ion and LiFePO4 Batteries
- Can be used without batteries
- Connect up-to 9 inverters in parallel in single phase & three phase

DIRECT SOLAR POWER INVERTERS:-

Direct Power from Solar Power

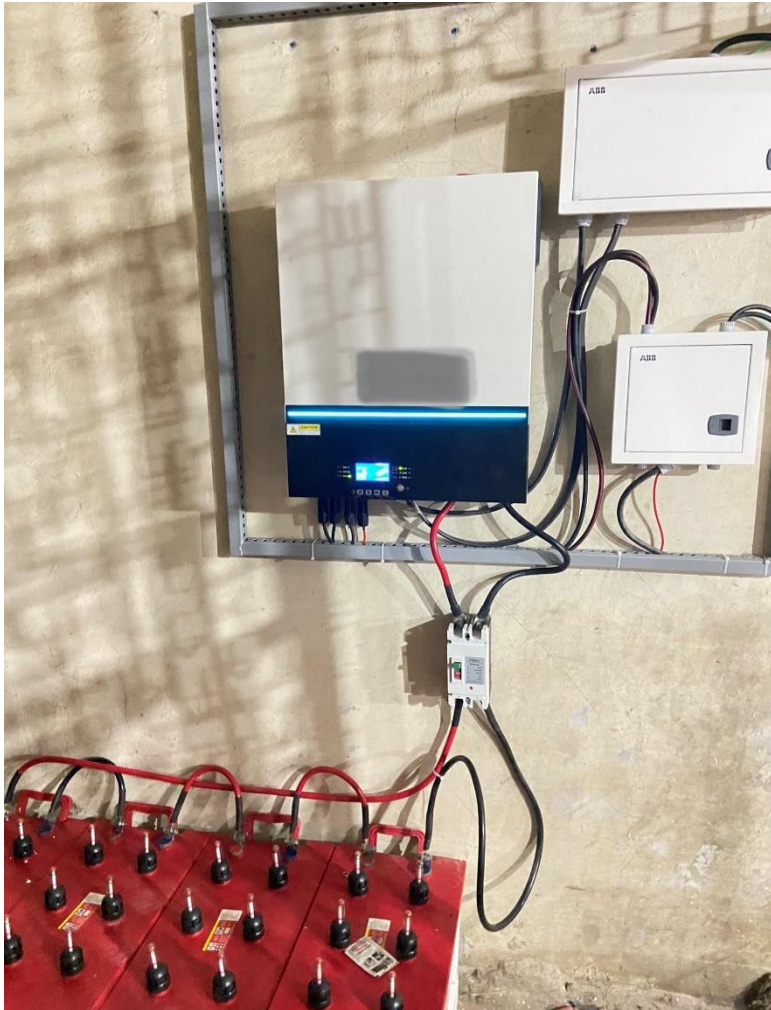
APS SOLAR Inverter allows you to choose on how to power your loads: Either share loads between solar & utility or share loads between solar & battery. Intelligent system allows you to power load directly from solar power during the day time keeping grid and/or battery power only Backup Only.



Special Features

- Power Factor 1
- Works with or without batteries
- Load Sharing Options: Solar & Utility
- Pure sine wave solar inverter with up-to 93% peak efficiency
- Built-in wide range single MPPT solar charge controller
- Light weight with slim design
- Double surge power capacity
- Advanced monitoring software included
- Multiple Customizable Settings
- Connect up-to 4kW of solar panels to both 3kVA-24V and 5kVA-48V models

APS ONLINE SOLAR INVERTERS



APS Ultimate MPPT is designed to power critical loads which require zero transfer time to ensure unobstructed power supply 24*7. The switch time is 0 ms in this mode from one mode to another. Detachable LCD allows the user to configure and view inverter settings as required from a more accessible place than

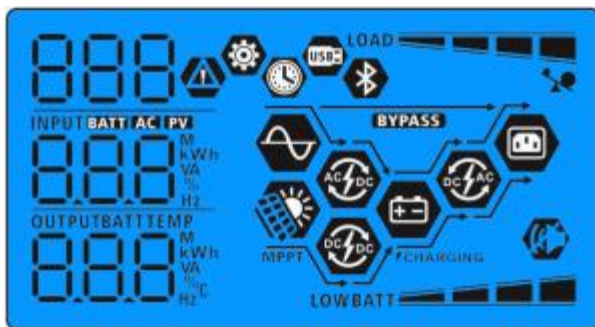
just where inverter is installed. This inverter is compatible with Lead-Acid, Lithium Ion and LiFePO4 batteries. It comes with inbuilt WiFi Monitoring

Direct Solar Power



APS MPPT Ultimate allows you to choose on how to power your loads. Share loads between solar & battery or power load from utility. The intelligent system allows to power load directly from solar power during the day time keeping grid and/or battery power only for back-up.

Detachable LCD Screen & Comprehensive Display



APS MPPT Ultimate comes with option to detach the LCD screen from the inverter and install at another location. This helps in ease of viewing particularly if the inverter is installed in a corner of the house. The comprehensive user-friendly LCD display shows operating status and allows you to configure system as per your need. You can set/change battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications from the LCD screen itself.

Inbuilt WiFi



APS MPPT Ultimate comes with In-built WiFi monitoring. This makes monitoring easy for customer. Using Watch Power app and with inbuilt WiFi, customer has full control on device. Customer can change settings of inverter remotely from anywhere in the world.

Special Features

- Pure sine wave inverter with 93% peak efficiency
- In-built solar charge controller
- Double surge power capacity
- Advanced monitoring software included
- Selectable input voltage range based on appliances
- Can be paralleled with up-to 9 inverters
- Overload and short circuit protection
- Compatible with mains voltage and generator power
- Advanced charging algorithm for improved battery performance

Zero Transfer Time

APS ON LINE SOLAR INVERTER: - MPPT Inverter is designed to power critical loads which require zero transfer time to ensure unobstructed power supply 24*7. The switch time in this system is 0 ms from one mode to another. You will not even realize when a switch happens. **This inverter is ideal for sensitive equipment like Servers, ATMs and Medical Machines.**

SOLAR WATER PUMP:-

APS solar pump inverter is the most economical solution to run a regular AC single phase or three-phase water pump battery-lesson pure solar power. It is easy to install, highly efficient and has a slick design. Built-in MPPT solar charge controller ensures maximum solar power is generated and gives desired output.

Solar Enabled



APS solar pump inverter is environment friendly with a long lifetime and low maintenance costs. It comes with built in MPPT charger to ensure that you get the best output. It optimizes the performance of pump solar Inverter along the day. It starts and stops automatically based on the intensity of solar radiation.

Special Features

- Built-in high efficiency MPPT solar charge controller with VFD
- Supports single phase or three-phase asynchronous motor
- Built-in full protection and self-diagnosis
- Soft start function prevents water hammer effect & extends system lifecycle
- Built-in LEDs and display screen for real-time system status and updates
- RS-485 communication port available
- Suitable for up to 20HP AC Pumps

Light Weight

APS Solar Pump Inverters are super lightweight pump inverters. They weigh only 6kg. They are aesthetically beautiful and easy to install.

Comprehensive Display

APS solar pump inverters are designed to offer great flexibility in user operation. Inbuilt LCD screen and menu button allow users to customize power factor, voltage, current and DC voltage. You can also view operating status and power information on the LCD screen.

LITHIUM BATTERIES:-

APS solar developed high capacity Lithium batteries for Home Inverter, 100 Ah / 48volt 5000 watt hour lithium battery comes with many features and 5 years warranty. This power storage runs everything such as Multiple lights, Many Ceiling fans 8- 10 and Home and Kitchen Appliances such as Television, Refrigerator, Water Motor, Geyser, Grinder, Juicer Machine, Inverter AC and many more appliances up to the power of 5000 Watts.

Lithium battery is latest technology product in battery storage market, It has many advantages including

- 1) faster charging - battery gets charged 100% in just 2-4 hours
- 2) It is maintenance free
- 3) longer life - Compared to Lead acid and SMF, Lithium battery has 3,000 cyclic life which translates in 10 years useable life.
- 4) light weight - the weight of a lithium battery is 1/4th of Other comparable batteries such as SMF, lead acid batteries.

LEAD ACID BATTERIES-

Thick lead acid batteries of APS Solar are a type of deep cycle batteries that are designed to store energy from solar panels and provide reliable power for various applications. They are made of thick lead plates that are immersed in a sulfuric acid electrolyte and sealed in a durable case. They have several advantages over other types of batteries, such as:

- They are robust, reliable, and cheap to make and use
- They can handle high currents and deep discharges without damaging the battery
- They have a long lifespan of up to 7,000 cycles at 20% depth of discharge
- They are easy to maintain and recycle

However, they also have some drawbacks, such as:

- They are heavy and bulky, requiring more space and support
- They have a low energy density and efficiency, meaning they need more batteries to store the same amount of energy
- They are sensitive to temperature extremes and sulfation, which can reduce their performance and capacity
- They need regular watering and equalization to prevent stratification and corrosion

Therefore, thick lead acid batteries of APS Solar are a good choice for solar storage if you are looking for a low-cost, long-lasting, and high-power battery that can handle harsh conditions.

However, you should also consider the weight, size, maintenance, and environmental impact of these batteries before making a decision.

AI BASED SOLAR ENERGY DRIVEN COMPANY :-

APS Solar is a leading provider of solar energy solutions for residential and commercial customers. We offer a mobile app that allows you to monitor your solar system performance, access dedicated customer support and receive regular follow-up from our team. With our app, you can:

- View real-time data on your solar production, consumption and savings
- Track your environmental impact and carbon footprint reduction
- Receive alerts and notifications on your system status and performance
- Contact our customer support team with one tap
- Schedule maintenance and service appointments
- Get tips and recommendations on how to optimize your solar system

Our app is compatible with iOS and Android devices and is free to download for all APS Solar customers. To get started, simply scan the QR code on your solar inverter or visit our website to register your account. Enjoy the benefits of solar energy with APS Solar!