



Suva residential energy storage

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What is Battery Energy Storage System (BESS) 4000VA? The Battery Energy Storage System (BESS) 4000VA, developed by Su-vastika, is an in-built Lithium LifePO4 battery backup system to store the energy through the grid and run on the battery backup in case of power failure. This is an ideal system for homes and offices. It can run the air conditioner, TV fans, fridge lights, general household load, and IT load without flicker. This is also called a Lithium Inverter, having a built-in Lithium battery to replace ordinary inverters running on Lead Acid batteries available in the market. This can be called a built-in Lithium Inverter/UPS.

The primary component of a BESS is a LiFePO4-based battery. Su-vastika has designed ESS with powered Lithium Ion batteries being developed to offer an uninterrupted power supply with reduced charging time and higher efficiency. Battery ESS comes with Pure Sinewave technology.

Su-vastika uses advanced Static switches in its BESS 4000VA model that reduce switching time to less than three milliseconds. It is fast enough to prevent a computer and most sensitive equipment from resetting, offering customers an uninterrupted power backup. Because of its strong R& D and the experience of its able Mentor, Su-vastika understands the power backup needs of its customers across industries.

Most importantly, it's our Patent Technology as well.

At Su-vastika, we have a complete range of battery ESS single phase up to 5KVA. ESS can run various loads of Commercial, Residential, Factories, Hospitals, Schools, Colleges, Hotels, etc. Anyone who needs to run high-capacity loads where home UPS/inverters are being used can also run the same load on the ESS.

The best part is we can customise Battery ESS-based power backup solutions based on individual needs. This can also run for a short duration, especially for generators where people want uninterrupted power during a power failure. This can work between the Grid and generators, and there will be no switching time.

Maintenance in the normal Inverter/UPS having the Lead Acid batteries is a big headache as the regular battery water topping is required, creating a security hazard in today's world.

The BESS is designed to require No maintenance at all; No water topping, No water levelling, No mineralisation, No frequent battery replacement, etc. Lithium Ion batteries are made of Lithium-ion cells combined and sealed in a battery pack.

That's right, once installed, these BESS can guarantee a hassle-free experience and smooth power supply.

Su-vastika BESS has Bi-directional technology under which the MOSFET circuit converts AC from the power



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mains into DC to charge the battery. In the absence of current from the mains supply, the same MOSFET converts DC stored in the battery into AC used by the appliances in the house. For charging the battery, the bi-directional technology provides pure DC. It uses pure sine-wave output for discharging, which ultimately increases battery life.

Su-vastika ESS comes with Isolation Transformer which is the most important parameter when it comes to be weak neutral or weak ground. All the developing countries have the major problem of weak Neutral and Voltage variations and spike and surges which are absorbed by the Isolation transformer but in High Frequency Inverter without Isolation Transformer, the failure start happening in these conditions.

The BESS can work smoothly for 50 years with very little maintenance. The life of the lithium battery will be no less than ten years which is very cheap compared to the Lead Acid battery, as we need to change the Lead Acid battery within 2 to 3 years of usage.

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