



Sri lanka solar storage

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One of the drawbacks of solar energy systems is that the Sun doesn't provide a constant stream of energy. On cloudy days or at night, the amount of energy your system receives is reduced or eliminated altogether. This in turn impacts the amount of electricity that your system produces during those times.

To overcome this drawback, Where solar power needs to be used when the sun does not shine, it is usually stored in batteries. These are the same batteries used for other applications, and could be based on lead-acid, lithium-ion, etc. However, only some select types of batteries (deep discharge/cycle) within the available range are optimal for solar power plants owing to the specific aspects of solar power generation and use.

When the power of the PV modules exceeds the power required to run your household appliances, Solar Eclipse begins to store energy in the four batteries, energy which would otherwise be directed to the mains power supply, by functioning as a continuous current battery charger.

When the power required by the household appliances exceeds that of the photovoltaic modules (for example on cloudy days or at night), Solar Eclipse draws the energy stored in the batteries and feeds it to your inverter "grid" enabling it to function in such a way that the appliances have no need to draw energy from the mains power supply. Solar Eclipse therefore functions as though it were a battery charger when there is an excess of solar power, as though it were a string of PV modules irradiated from the sun when the solar power is insufficient or absent altogether.

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Web: <https://www.somethingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

