Off-grid energy storage 9 kWh

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The 9.6/14.4kWh LFP ESS optimally manages electrical energy, ensuring a stable electricity supply and cost reduction. By leveraging free solar electricity to charge the battery, this system transforms the way you consume energy. By integrating an ESS with a private power station, such as a Solar Energy generation system, you gain the capability to supply electricity for a 24/7 operable home power network. Say goodbye to power outages and embrace energy independence.

The price includes a basic set of cables, protection disconnectors, and accessories required to create a fully operational system. User manuals and a connection diagram will be supplied with your order. Mounting not included - if you require a mounting system, select a suitable option here or contact us for advice.

When installing in or near residential premises, the installer must ensure that the battery installation complies with PAS 63100:2024 Electrical Installations - Protection Against Fire of Battery Energy Storage Systems for Use in Dwellings - Specification .

The ideal location for storage batteries is outside dwellings and away from rooms used for living. The IP65 rated IP65 cabinet allows up to 4 US5000-1C batteries to be installed outdoors for maximum installation flexibility and saving your time spent on installation. Remote monitoring is also available via your smartphone or web portal.

WARNING: Never mix and match batteries in the battery bank. All batteries must be the same type, size, and general age. An old, mismatched, or shorted battery in a bank causes a lot of problems. NOTE: New batteries act like old batteries and will need a few cycles before they operate correctly.

The 9.6/14.4KWH LFP ESS uses 2x or 3x well-known PYLONTECH US5000-1C Lithium-Ferro-Phosphate (LFP batteries with a total capacity of 9,600/14,400Wh in parallel. Patented structure design with high utilisation of active material, maximum improve the utilisation rate of active material and the utilisation ratio of battery internal space. High performance for large current discharge.

If LiFePO4 batteries are not fully discharged, they do not need to be charged after each use. LiFePO4 batteries do not get damaged when left in a partial state of charge (PSOC). You can charge your LiFePO4 batteries after each use or when they have been discharged up to 80% DOD (20% SOC).

6. WHAT TO DO IF THE LOSS OF POWER OF THE BATTERY BANK IS TOO QUICK?Check if there are any high-power electrical appliances connected. The Off-grid Energy Storage System"s battery capacity is 9,6kWh or 14,4kWh. Normally, if the power of a connected electrical appliance is ~2000W and the battery is discharged from 100% to 10%, the battery will run out in about 4.3 or 6.5 hours, respectively.

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A power inverter is a device which converts battery power into mains power, i.e. it transforms 48V direct current (DC) into 230V alternating current (AC). 230V AC is the power supplied to our houses by utility companies, and this is the power required by most normal household appliances such as lights, TVs, fridges etc. There are two main types of inverters:

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