Industrial solar batteries

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Western Industrial provide Solar Batteries throughout the UK and we offer a highly efficient solution for storing surplus electricity generated by your solar panels. If you are considering either upgrading your current battery system or installing a new one, we invite you to contact our team today.

The capacity of a battery refers to the quantity of energy it can store, measured in kilowatt-hours (kWh). It is crucial to avoid completely draining batteries, as doing so can cause harm. Unfortunately, some batteries are deceptively marketed with claims of their ‘total’ capacity. It is essential to carefully examine the information provided and focus on the “useable capacity” figure, which is the one that truly matters.

Let us take the Tesla Powerwall as an example. While it is advertised as having a capacity of 14 kWh, the actual usable capacity is 13.5 kWh. This precautionary design ensures that the battery will never discharge fully, preventing any damage to its cells.

It is important to ascertain the number of cycles for which a battery is warranted in order to accurately determine the amount of electric power, measured in kWhs, that the battery will deliver throughout its guaranteed lifespan.

Similar to solar photovoltaic systems, the preferences of customers play a significant role in determining the appropriate solution. If you are considering acquiring an electric vehicle, opting for a larger battery capacity can ensure your household remains powered while also allowing you to conveniently charge your EV overnight.

Moreover, having a larger battery can enhance grid trading possibilities by enabling more charging during periods of low-cost electricity and offering surplus energy to be sold back to the grid during peak rate times. Additionally, for devices that require high power consumption, larger batteries prove advantageous as they provide higher output and are capable of withstanding increased demand without sustaining any damage.

Certain battery storage systems have a limited power output, delivering a mere 800 watts. This proves inadequate if your intention is to brew a cup of tea, as your trusty kettle requires a robust 2000 watts. Similarly, if you are generating a commendable 4 kilowatts of energy but your battery can only accommodate

3 kilowatts, an unfortunate 1 kilowatt will be needlessly dispatched to the grid, squandering your precious surplus energy.

Hence, it is of utmost importance to thoroughly verify the power output before making a purchase, lest you find yourself excessively reliant on the grid despite the presence of ample energy stored in your battery.

Evaluating the price per kilowatt-hour (kWh) of storage capacity provides a reliable and objective method to compare various systems. Determining the appropriate number of kWhs for your property is a personalised decision, contingent upon your unique requirements. Having a larger storage capacity enables significant reductions in your energy bills and allows you to maximise the benefits of emerging “Time of Use” tariffs in the energy supply market.

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