

HOPPECKE grid Xtreme VR

The special design of the grid | Xtreme VR with its thin-plate technology provides superior energy and power density – this means more usable energy in the same installation space. The result is a smaller footprint, which also translates into lower infrastructure costs.

The use of pure lead to produce the electrodes forms the basis of this thin-plate technology. Its superior corrosion properties compared to other lead alloys enable this significant reduction in electrode thickness with the longer service life at the same time.

In addition, pure lead increases stability at high temperatures by reducing electrolyte ageing. This often makes it possible to dispense with air conditioning and thus save energy and CO2 emissions.

Short bridging times with high discharge rates are essential requirements in data centers and are supported by the top terminal solution. High energy densities combined with good cycle ability in the compact design of a front terminal battery are fundamental criteria for a secure power supply in telecom applications.

The colour green stands for sustainability and a small CO2 footprint. Lead can be recycled indefinitely in an environmentally friendly as well as efficient way. Here is an example: perhaps the lead from your telecom battery has already been used in your grandfather's car - that is a cool second life, isn't it?

The HOPPECKE return and recycling system for lead batteries makes a substantial contribution towards protecting natural resources. In accordance with the 'cradle to cradle approach', HOPPECKE carries out a consistent recycling management. Precious resources are not wasted but reused.

The lead is professionally processed and recycled in the company's own metal smelter. The recovered metallic lead is refined, alloyed and cast into ingots, which are then fed back into the production process. In this way we ensure careful handling of a scarce raw material, nearly 100% of which is utilised in an environmentally compatible economic cycle.

Temporary overload: The pure lead reduces the wear of the important components of the battery such as the electrode and electrolyte. In detail, this means that both grid corrosion and water consumption are reduced.

As a rule, the weakest link in the chain determines the overall performance. Due to the fully automated production, all components behave evenly which is beneficial to the overall performance of the system and the service life.

HOPPECKE, as a long-term manufacturer of batteries, holds all relevant ISO certificates according to quality. Furthermore, all our products meet the international battery test standard IEC-60896. Additionally, we follow



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many customer and country specific approvals in telecom, UPS, and railway infrastructure business.

Our grid | Xtreme VR can operate in higher temperature environments, which means less cooling and significant operating cost savings. With its high quality and very long lifetime expectancy it will definitively reduce battery replacement frequency. In addition to this, one model fits all due to parallel strings. This results in minimised logistic cost and increases high availability. So the best of both worlds: low TCO and low OPEX imply optimal total cost!

Our grid | Xtreme VR can be operated in higher temperature environments thanks to the extended operating temperature range. This means significant operating cost savings due to less air conditioning. The high quality and very long service life expectancy reduces OPEX, as the batteries need to be replaced less frequently. Thanks to parallel battery strings, the grid | Xtreme VR pure lead battery is also optimally suited for high power requirements. Logistics costs are minimised and availability is increased.

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