Energy storage solution 140 kWh

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In response to rising electricity demand driven by economic growth and population increases, the energy sector is undergoing a significant transformation. As governments and industries worldwide move toward distributed renewable energy sources, traditional centralized grids are facing new challenges. The mtu EnergyPack provides a cutting-edge solution for large-scale energy storage, seamlessly integrating renewable sources like solar and wind power.

It ensures grid stability, enhances energy reliability, and supports the transition to future-ready, sustainable power systems. Combined with the mtu EnergetiQ Manager it efficiently stores and dispatches energy bringing together high-quality hardware, intelligent software and unparalleled service. Make smart investment in the future of energy with our innovative solutions.

The mtu EnergyPack efficiently stores electricity from distributedsources and delivers on demand. It is available in different sizes: QS and QL, ranging from 200 kVA to 2,000 kVA, and from 312 kWh to 2,084 kWh, and QG for grid scale storage needs, ranging from 4,400 kVA and 4,470 kWh to virtually any size.

The mtu EnergyPack serves as a key component in enhancing the reliability and profitability of microgrids and energy systems. It stores electricity generated by distributed power sources, including gensets, wind turbines, or solar panels, and delivers it when needed.

No matter your power and capacity needs, the mtu EnergyPack stands as the reliable choice for microgrids and energy systems. Its containerized housings have divided sections, some with outside air contact for protection against pollutants. Additionally, mtu EnergyPack QG offers scalable capacities for energy suppliers or trading purposes, up to several hundred megawatt hours.

Automation systems in a battery world are very crucial because they are basically the clue of the system and need to be configured and adapted to all the needs we have in the grid. The unique advantage of a battery automation system is that it is a one stop shop solution which we provide to our customers. Its fully inhouse developed, and it is highly flexible when it comes to customer requirements and customer needs and therefor unique to the market.

Battery energy solutions become more and more important going forward. The main reason I would say customers can rely on us is our history. We have been around for a very long time. And we have a service infrastructure really spread out throughout the world. Our products are high quality, high engineering and the after sales that comes with our service footprint globally gives our customers the security and ensures, that their projects will last.

The HYBRID C& I ESS CABINET Pack TB-HR140 is an advanced energy storage solution that combines

high capacity and solid performance. This unit features a lithium iron phosphate (LFP) battery with a capacity of 14.3 kWh, configured in a 1P16S arrangement. It operates at a nominal voltage of 51.2 V and supports a voltage range of 40 V to 58.4 V. Weighing 115 kg, this system can efficiently handle charge and discharge rates of up to 0.5 ?C. Its compact dimensions of 461 mm x 228 mm x 778 mm allow for flexible installation options.

The TB-HR140 is designed to operate over a wide operating temperature range of -20?C to 53?C, supporting relative humidity levels from 0% to 95%. It is suitable for use at altitudes up to 3000 meters and offers IP20 rated ingress protection. Communication with the power conversion system (PCS) is facilitated via a CAN interface, ensuring seamless integration and monitoring. This combination of features makes the TB-HR140 an ideal choice for commercial and industrial energy storage applications, offering reliability and efficiency in various environmental conditions.