310 kWh energy storage battery pack

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Enter your own configuration"s values in the white boxes, results are displayed in the green boxes.

Even if there is various technologies of batteries the principle of calculation of power, capacity, current and charge and disharge time (according to C-rate) is the same for any kind of battery like lithium, LiPo, Nimh or Lead accumulators.

Caution : do not confuse Ah and A, Ampere (A) is the unit for current, Ampere-hour (Ah) is a unit of energy or capacity, like Wh (Watt-hour) or kWh or joules.

I = Cr * Er or Cr = I / Er Where Er = rated energy stored in Ah (rated capacity of the battery given by the manufacturer) I = current of charge or discharge in Amperes (A) Cr = C-rate of the battery Equation to get the time of charge or charge or discharge "t" according to current and rated capacity is : t = Er / I t = time, duration of charge or discharge (runtime) in hours Relationship between Cr and t : Cr = 1/t t = 1/Cr

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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.

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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.

mtu EnergyPack QG Giant and powerful4,400 kWh - to any size

mtu EnergyPack QL Large and versatile1,000 kWh - 2,000 kWh

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