

1MWh Off-Grid Solar Container for Wastewater Treatment Plants





Overview

What is pknergy 1MWh battery energy solar system?

The PKENERGY 1MWh Battery Energy Solar System is a highly integrated, large-scale all-in-one container energy storage system. Housed within a 20ft container, it includes key components such as energy storage batteries, BMS, PCS, cooling systems, and fire protection systems.

What is a 1MWh Battery Energy Storage System?

A 1MWh Battery Energy Storage System, such as PKENERGY's 20ft container solution, stores energy equivalent to 1 megawatt-hour. It includes 5 clusters connected to a 500kVA power conversion system (PCS) for output at 340-440VAC. The system also includes a 500kW three-phase inverter with a 98.3% conversion efficiency and a 300kW inverter for DC to AC conversion.

What is the capacity of pknergy 20ft container 1MWh battery?

PKENERGY's 20ft container 1MWh battery has a rated capacity of 1000kWh. It uses LFP (Lithium Iron Phosphate) batteries and is designed to have a lifespan of over 10 years. The system can operate completely off-grid.

Can solar energy be used in wastewater treatment?

The work within SHC Task 62 shows solar energy's great potential in wastewater treatment. Nevertheless, there is still the need to take further action. Using separation technologies such as membrane distillation in combination with solar process heat represents an innovative leap in the industry.



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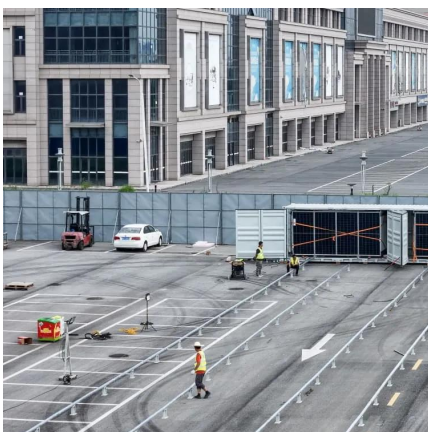


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