



0.5C Lithium-Based Liquid-Cooled 2.75MWh 5MWh Capacity Container Energy Storage System (BESS)



What Are Container-Type Batteries?

Container-type batteries are energy storage systems where high-energy-density batteries, such as lithium-ion, are placed inside a modular container and supported by specialized cooling, protection, and monitoring systems. These systems, available in standard container sizes like 20ft and 40ft, stand out with their high energy capacity and portability.

Container-type batteries provide a sustainable and reliable energy source, especially when integrated with renewable energy sources, ensuring a balanced supply and demand of energy.

Container-Type Batteries for Power Storage Solutions

At Yiğit Battery, we provide our customers with reliable, durable, and flexible power sources through our container-type battery solutions, which are specifically developed for high-capacity energy storage needs. Thanks to their modular structure within containers, these batteries are ideal solutions for storing and managing large amounts of energy efficiently. Suitable for renewable energy integration, backup power requirements, and portable energy needs, container-type batteries offer revolutionary solutions in energy management.

Yiğit Battery's Solutions

Yiğit Battery provides high-performance, reliable, and environmentally friendly solutions in the field of container-type batteries, backed by extensive expertise and experience. Our products are manufactured according to international quality standards and are equipped with continuously evolving technology. Each of our container-type batteries is designed to deliver reliable performance even in the most challenging climate conditions, supported by liquid cooling, IP55 protection class, and advanced monitoring systems. Yiğit Battery is an innovative and powerful brand that has proven itself in the global market. By exporting to more than 100 countries across five continents, we offer energy storage solutions worldwide. With our container-type batteries, we are here to help our customers streamline their energy management, contribute to sustainability goals, and provide an uninterrupted power supply.

Applications



Renewable Energy Storage

- Helps maintain a stable and reliable power supply by storing energy obtained from renewable sources like solar and wind.



Grid Backup Power

- Serves as a backup during power outages, meeting the energy needs of critical infrastructures such as hospitals and data centers.



Peak Load Balancing

- Activates during peak grid hours to help balance energy demand, reducing the load on the power grid.



Industrial and Commercial Energy Management

- Reduces energy costs and ensures uninterrupted power in high consumption locations like factories, data centers, and hospitals reducing the load on the power grid.



Mobile Power Requirements

- Offers a quick and portable energy solution for temporary power needs in event areas, construction sites, or remote locations.

PARAMETERS

GF-20ft.-2.75MWh-008

GF-20ft.-5MWh-010

Cell type/Ah	LFP-280	LFP-314
Package type	1P48S	1P52S
Shelf size	1P384S	1P416S
System configuration	8*1P384S	12*1P416S
Battery capacity/kWh	2752	5016
DC usable energy FAT (Factory acceptance test)/kWh	2476	4715
DC usable energy SAT (Site acceptance test) /kWh	2435	4620
Battery voltage range	1075.2~1363.2V	1164.8~1476.8V
Charge-discharge ratio	0.5C	0.5C
Max charge - discharge ratio	0.6C	0.6C
Nominal power/kW	1375	2500
Maximum current/A	1344	2260
Cabinet type	20ft.	20ft.
Size/mm	2438 x 6058 x 2896	2438 x 6058 x 2896
Weight	≤33T	≤43T
IP	IP55	IP55
Anti-corrosion grade	C5	C5
Operating temperature range	Discharging temperature: -10 °C to ~ 55 °C Charging temperature: 0 °C to ~ 55 °C	Discharging temperature: -10 °C to ~ 55 °C Charging temperature: 0 °C to ~ 55 °C
Relative humidity	0~90%RH	0~90%RH
Maximum operating height/m	<2,000	<2,000
Cooling concept	Liquid cooling	Liquid cooling
Noise/m	≤80dB@1	≤80dB@1
Fire suppression system	aerosol/Water-based fire protection interface	aerosol/Water-based fire protection interface
Auxiliary system nominal power/kW	27	29
Auxiliary system voltage	AC400V/50Hz, 3-phase 4-wire	AC400V/50Hz, 3-phase 4-wire
Auxiliary system wiring	3L+N	3L+N
Auxiliary system peak power requirement/kW	32	42
Communication interfaces	CAN/RS485/Ethernet	CAN/RS485/Ethernet
Communication protocols	CAN2.0B/modbus-RTU/IP	CAN2.0B/modbus-RTU/IP
Standard color	RAL7035	RAL7035
Compatibility	1. PACK: 36276-2018 1C/36276-2018 type test 0.5/UN38.3 (0.5C)/UL9540A (0.5C/1C) commissioned certification completed. 2. Cluster: 36276-2018 Commissioned Certification/IEC61000/IEC626 19/UL9540A 1C (0.5C/1C)	1. PACK: 36276-2018 1C/36276-2018 type test 0.5/UN38.3 (0.5C)/UL9540A (0.5C/1C) commissioned certification completed. 2. Cluster: 36276-2018 Commissioned Certification/IEC61000/IEC62 619/UL9540A 1C (0.5C/1C)



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