

A global leading supplier of containerised solutions

TLS
Offshore containers

Energy Storage System (ESS) Containers



Wherever you are in the world TLS can help you, contact us.

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TLS Offshore Containers

Energy Storage Anytime, Anywhere-Industrial Solution

The energy storage system (ESS) containers are based on a modular design. Configured to match the required power and capacity requirements of client's application. The energy storage systems are based on standard sea freight containers starting from kW/kWh (single container) up to MW/MWh.

By integrating batteries, PCS, BMS, and EMS, and fire suppression system, customized, one-stop energy storage solutions are provided. Containerized solution, portable and easy for transportation and installation. An ideal solution for large-scale energy storage projects. The energy storage containers can be used in the integration of various storage technologies for peak regulation and frequency regulation of energy storage power stations, or the utilization of echelon batteries, occasions of emergency power supply, and some commercial applications of peak regulation and valley filling.

All our containerized solutions are designed to meet the most demanding specifications and can cope with multiple adverse conditions.

In the case of storage in batteries the container is mechanically adapted to integrate the air conditioning equipment that allows energy storage according to the project. These solutions provide greater flexibility and robustness to renewable power production systems.

Advantage

- Attractive price and long asset lifetime
- Expected lifetime $\geq 10,000$ cycles or ≥ 20 years
- Independent scaling of power and capacity
- Increased self-consumption of renewable energy
- Environmentally friendly and safe operation
- Water based electrolyte: non-flammable and non-explosive



Details

TLS has also integrated stations for energy storage projects with: super-capacitors, lithium-ion batteries, hydrogen storage and hybrid technologies. The extensive experience accumulated by TLS, and our passion for tackling modern technological challenges, makes it possible to undertake any energy storage project.

As the wave quality stations that improve the quality of the electric energy supplied by the generation source or the stations intended for the electric power injection when the main supply is interrupted, allowing to synchronize several emergency and power equipment at the same time.

General specification

Item	Specification	
Container Dimension	20ft	40ft
Power Capacity	500KWh~1MWh	2MWh~3MWh
Rated Output Voltage	220V/230V/380V etc.	
Rated Output Frequency	50/60Hz	
Output Phase	3P+N	
Temp Range	-20°C~50°C	
Communication	RS485\CAN	
Temp Control	HVAC+BMS	
Heat Dissipation	Forced air cooling	
Fire Suppression	Heptafluoropropane Fire Extinguishing System	

