

Energy Storage system (ESS) Containers

Energy Storage Anytime, Anywhere - Industrial Solution

The energy storage system (ESS) containers are based on a modular design. They can be 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 (combining multiple containers). The containerised energy storage system allows fast installation, safe operation and controlled environmental conditions.

Our containerised energy storage system (ESS) is the perfect solution for large-scale energy storage projects. The energy storage containers can be used in the integration of various storage technologies and for different purposes. The containerised ESS solutions are designed to meet the most demanding specifications and can cope with all kinds of adverse conditions.

In the case of storage in batteries the container are 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.



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,

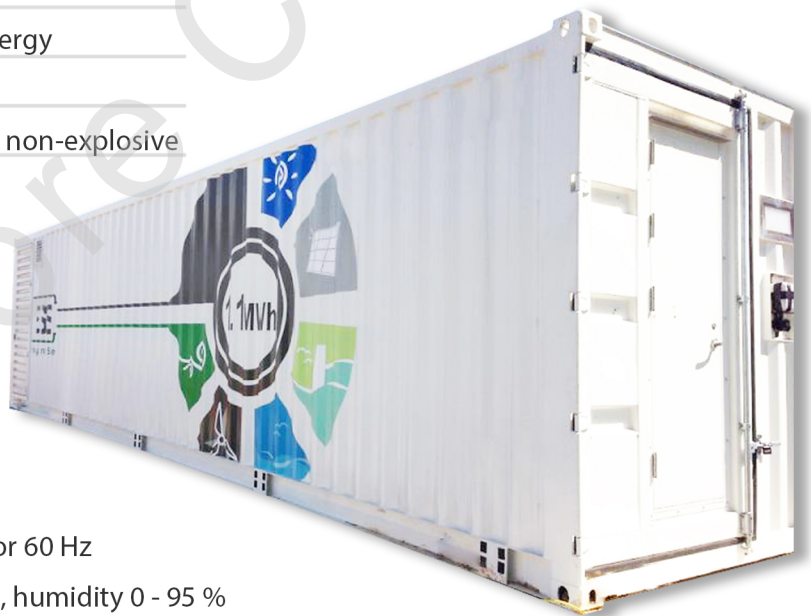


Benefits

- 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

Features

- Development DC Panels.
- Fire protection systems.
- Stations with anti-acid cockpits.
- Integrated refrigeration systems.
- Grid connection: 3-phase AC | 400 V, 50 Hz or 60 Hz
- Environmental conditions: -20°C to $+40^{\circ}\text{C}$, humidity 0 - 95 %
- Power and capacity: kW/kWh ~MW/MW
- Dimensions / Layout: 20' or 40' container(s) or customised dimension



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

