

**PIENAAR ENERGY (PTY) LTD**

**Liquid-cooled solar container  
energy storage system solar  
power supply**



## Overview

---

The system consists of highly efficient, intelligent liquid cooling and reliable energy management solutions for various applications such as peak shaving, high-power grid expansion, industrial power backup, and emergency power supply. Our liquid cooling storage solutions, including GSL-BESS80K261kWh, GSL-BESS418kWh, and 372kWh systems, can expand up to 5MWh, catering to microgrids, power plants, industrial parks. The 3. 35MWh Liquid-Cooled Energy Storage Container is a high-performance energy storage solution featuring Lithium Iron Phosphate (LiFePO<sub>4</sub>) batteries, known for their safety and reliability. 5MW, it is designed for large-scale. The structural design of Mate Solar's MTCB series products is more compact and flexible. It can help customers cut peaks and valleys, adjust peaks and frequency, reduce dependence on the power grid. The product is green and environmentally friendly, with low noise, zero pollution and zero. In regions with high penetration of renewables and in markets demanding greater grid flexibility and dynamic pricing mechanisms, safe, efficient, and easy-to-deploy storage solutions are increasingly being adopted.

## Liquid-cooled solar container energy storage system solar power su

---



### Liquid Cooling Energy Storage System , GSL Energy

Discover GSL Energy's advanced liquid cooling energy storage systems for commercial and industrial applications. Scalable to 5MWh, certified by UL, CE, CEI and IEC. Improve energy efficiency, ensure ...

[Get Price](#)

---

### 3440 KWh-6880KWh Liquid-Cooled Energy Storage Container System

The system consists of highly efficient, intelligent liquid cooling and reliable energy management solutions for various applications such as peak shaving, high-power grid expansion, industrial power ...



[Get Price](#)

---



### Liquid-cooling becomes preferred BESS temperature control option

Liquid-cooling systems are carefully integrated into BESS containers to efficiently manage the heat, said Zhehan Yi, utility and ESS director at CPS America. The liquid-cooling system in the ...

[Get Price](#)

## 125kW 232.9kWh Liquid-Cooled AC Coupled Energy Storage System ...

Explore GSL ENERGY's 125kW 232.9kWh AC-coupled containerized energy storage system with liquid cooling. Ideal for industrial peak shaving, microgrid backup, and off-grid power applications. Supports ...

[Get Price](#)

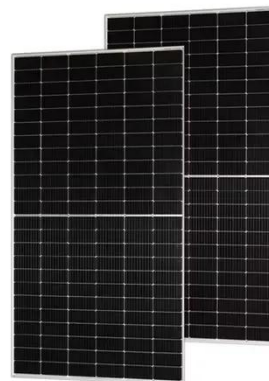
## How liquid-cooled technology unlocks the potential of energy storage

The advantages of liquid cooling ultimately result in 40 percent less power consumption and a 10 percent longer battery service life. The reduced size of the liquid-cooled storage container has many ...

[Get Price](#)

## 2025 Guide: Containerized Energy Storage Systems for Scalable ...

Dagong ESS, a division of Dagong New Energy, delivers modular containerized energy storage systems ranging from 100kWh to 5MWh+, with both air-cooled and liquid-cooled options.

[Get Price](#)



## 3.35MWh Liquid-Cooled Container Energy Storage System

With a rated capacity of 3.35MWh and power of 1.5MW, it is ideal for large-scale energy storage. Operating at 1040~1497V, it features a liquid-cooling system for optimal temperature control and ...

[Get Price](#)

## Liquid Cooling Containerized C& I Storage Reshapes Renewable Energy

Explore how advanced liquid-cooled, containerized storage for commercial & industrial use boosts safety, density, and scalability. This innovation is pivotal for optimizing solar energy ...



[Get Price](#)

Test certification  
CE FC



## MTCB-Liquid Cooling 215Kwh 430Kwh 645Kwh 699Kwh Continer ...

The liquid cooling system ensures higher system efficiency and cell cycling up to 10,000 cycles. The liquid cooling system reduces system energy consumption by 20% and extends battery life by 10%.

[Get Price](#)

## Liquid-Cooled Energy Storage Container: A Reliable Solution

## for the

As a specialized manufacturer of energy storage containers, TLS offers a mature and reliable solution: the liquid-cooled energy storage container system, designed to meet growing ...

[Get Price](#)



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.pienaarshof.co.za>

