

**JH Solar**

# **Liquid cooling energy storage sugon digital innovation**



## Overview

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What is Sugon dataenergy doing to improve fluid handling technology?

To promote ongoing development and innovation, Sugon DataEnergy continues to maintain contact with partners in the ecosystem proactively. As one of the major component suppliers to Sugon DataEnergy, CPC continues to improve fluid handling technology during this process.

Who is Sugon dataenergy?

Beginning with the user challenges, Sugon DataEnergy worked with its server business units as well as upstream and downstream manufacturers. It dedicated itself to the research and development of highly cost-effective products with broad- user acceptance.

How can liquid cooling improve energy conservation in data centers?

Each central processing unit (CPU) in the server cabinet requires significant energy. Consequently, liquid cooling technology located at the CPU level has become the primary focus of research at Sugon DataEnergy. In addition, liquid cooling technology is a way to improve energy conservation in data centers.

Does Sugon dataenergy use lq6 couplings?

Color-coded LQ6 couplings in Sugon DataEnergy standard server rack. One of these commercial supercomputers is the high-profile “Earth Data Simulation Device” from Sugon DataEnergy (Beijing) Co., Ltd., which fully simulates changes in the soil, oceans, and atmospheric movements around the globe.

Why should you choose Sugon dataenergy?

Since the HPC market in China is not yet mature, Sugon DataEnergy values the capabilities of upstream manufacturers and engages in in-depth technical exchanges with suppliers of various applications.

Why is Sugon dataenergy partnering with CPC?

Sugon DataEnergy is eager to cooperate with a technically mature manufacturer like CPC and has selected CPC as the primary supplier of liquid cooling module couplings to Sugon DataEnergy.” For CPC, the technical exchanges with Sugon DataEnergy are an essential function in enhancing its research, development and custom production capabilities.

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### Computing power also reduces carbon: data center liquid cooling ...

On August 2, Sugon Digital also officially released the "cold balance" strategy and the new liquid cooling brand SLiquid, continuing to increase the data center liquid cooling market.

### Cooling technologies for data centres and telecommunication ...

Data centres (DCs) and telecommunication base stations (TBSs) are energy intensive with ~40% of the energy consumption for cooling. Here, we provide a comprehensive ...



### China's data centers are pushing cooling to the limit

4 ???· The push for greener data centers includes adopting recyclable materials for cooling components, minimizing water consumption, and integrating renewable energy sources.

### The future of cooling: Scaling up sustainably with smart liquid

The high-density compute and energy-intensive

workloads of AI and machine learning have made sole reliance on traditional cooling methods unrealistic. The scale and complexity of AI-driven operations are pushing the boundaries of what conventional air ...



## LIQUID COOLING IN ENERGY STORAGE INNOVATIVE ...

Are liquid cooling systems a good thermal management solution? Liquid cooling systems, as an advanced thermal management solution, provide significant performance improvements for ...



## AI computing power is still "feverish", making liquid cooling

Based on this, Sugon Digital Innovation practices the concept of "liquid cooling as a service", breaking the traditional "selling equipment" model and turning to providing full life cycle ...



## Sugon Nebula Phase Change Immersion Cooling a Unique Platform

We take a look at the Sugon Nebula phase change immersion cooling platform at Supercomputing 2018. This is a well-designed system for future increasingly power-hungry ...

## Haiguang Information acquires Sugon, becoming China's second ...

In addition to holding Haiguang Information, Inspur also holds shares in Sugon Intelligent Computing (100% stake) for computing power operations, Sugon Cloud Computing (90% ...



## Sugons Silicon Cube Won the Innovation Excellence Award

In order to address the computing issues on energy consumption, sustainability, reliability, and the high costs of system operation & maintenance, Sugon's "Silicon Cube" successfully examples ...



## Global Liquid-Cooled Cabinet Market Surges Amid AI-Driven ...

Leading Chinese firms such as Inspur, Sugon, and Envicool are driving innovation, with Envicool's Coolinside liquid-cooled cabinets and Sugon's immersion solutions ...



## Sugons Silicon Cube Won the Innovation Excellence Award

As commended by the award committee, Sugon's new generation of "Silicon Cube" series computer have achieved the world-leading computing density and energy efficiency by ...



## 2024 China Liquid Cooling Server Industry Market Forecast ...

Sugon Data Infrastructure Innovation Technology (Beijing) Co., Ltd. is mainly engaged in the research, development, production and sales of immersion liquid cooling data ...



**12.8V6Ah**

Technical specifications for the 12.8V6Ah battery:

- Nominal voltage (V): 12.8
- Nominal capacity (Ah): 6
- Rated energy (Wh): 76.8
- Maximum charging voltage (V): 14.6
- Maximum charging current (A): 6
- Floating charge voltage (V): 13.6-13.8
- Maximum continuous discharge current (A): 10
- Maximum peak discharge current @ 10 seconds (A): 20
- Maximum load power (W): 100
- Discharge cut-off voltage (V): 10.8
- Charging temperature (°C): 0-+50
- Discharge temperature (°C): -20-+60
- Working humidity: <math>\leq 95\%</math> RH (non-condensing)
- Number of cycles (25 °C, 0.5C, 100%DoD): >2000
- Cell combination mode: 32700-4s1p
- Terminal specification: T2 (6.3mm)
- Protection grade: IP65
- Overall dimension (mm): 90\*70\*107mm
- Reference weight (kg): 0.7
- Certification: un38.3/msds

## Sugon liquid-cooled servers drive development of ...

It cools major server components using a hybrid cooling model employing air cooling and liquid cooling, with the ability to increase ...

## How to build a liquid-cooled data center with a book "Through"

A few days ago, at the "Green Energy Saving Liquid Cooling Data Center Summit Symposium", the "Green Energy Saving Liquid Cooling Data Center White Paper" ...



**PRODUCT INFORMATION**

Energy Storage System specifications:

- BATTERY CAPACITY**: 50kWh-500kWh
- DC VOLTAGE RANGE**: 400V-1000V
- DEGREE OF PROTECTION**: IP54
- OPERATING TEMPERATURE RANGE**: -10-50°C

## Sugon launches AI large model storage solution

On November 29, the "Digital Intelligence Innovation AI Future" 2023 China Data and Storage Summit was held in Beijing. Sugon Storage was invited to deliver a keynote speech, ...

## Liquid Cooling in Energy Storage: Innovative Power Solutions

Discover how liquid cooling enhances energy storage systems. Learn about its benefits, applications, and role in sustainable power solutions.



## Why Liquid Cooling Is the New Standard for Data Centers in 2025

Discover why liquid cooling is replacing air systems in modern data centers. Explore its role in AI workloads, energy savings, and sustainability in 2025 and beyond.

## China supercomputer manufacturer demonstrates its new energy ...

"Higher performance has to depend more on lower power usage effectiveness." Sugon scientists developed the immersion phase change liquid cooling technology.



## Liquid Cooling in Energy Storage , EB BLOG

Explore the evolution from air to liquid cooling in industrial and commercial energy storage. Discover the efficiency, safety, and performance benefits driving this technological shift.

## Trina Storage's Elementa 2 Liquid Cooling System ...

Trina Storage has achieved a global milestone with its Elementa 2 liquid cooling system, becoming the world's first energy storage product to earn a 20-year full lifecycle Environmental Product Declaration ...



## Liquid Cooled Battery Energy Storage Systems

In the ever-evolving landscape of battery energy storage systems, the quest for efficiency, reliability, and longevity has led to the development of more innovative technologies. ...

## 232kWh Liquid Cooling Battery Energy Storage System , GSL Energy

A Step Towards the Future The deployment of this liquid cooling energy storage system is a testament to GSL Energy's expertise and commitment to sustainable energy ...



## ZTT debuts 7.58 MWh liquid-cooled battery ...

Jiangsu Zhongtian Technology Co., Ltd. (ZTT) has recently unveiled its latest innovation--the ENERGRID NA7 liquid-cooled energy storage system with a storage capacity of 7.58 MWh. The system ...

## The first liquid-cooled data center in China was born! The era of ...

Faced with such a considerable incremental market, many server manufacturers have launched "liquid cooling solutions", but the ternary relationship between performance, energy ...



## The blood of AI (liquid cooling), liquid cooling will inevitably ...

5. Continental: The company has liquid-cooled server power products. The interactive platform indicates that with the need for energy saving and carbon reduction in data centers and the ...

## Sugon Digital Innovation: A new wave of innovation in the

2 ???· Sugon Digital, an innovative company dedicated to the research and development of artificial intelligence, is bringing a new wave of innovation to the technology industry.



## How to build a liquid-cooled data center? Sugon's ...

6 ???· As one of the pioneers in the liquid-cooled data center market, Sugon Digital Technology began to explore the "no man's land" of liquid-cooled technology as early as 2011, and has been committed to providing ...



## Revolutionizing Energy Storage: Liquid-Cooled Systems for ...

The integration of liquid cooling technology into industrial and commercial energy storage systems represents a significant stride toward efficiency, reliability, and sustainability.



Deye inverters and Deye batteries are more compatible.

114KWh ESS



ISO 9001 ISO 14001 PICC RoHS CE MSDS UN38.3 UK CA IEC

## Filling the gap in liquid-cooled storage, Dawning has once

In 2013, Sugon took the lead in launching the world's leading immersion phase change liquid cooling technology. This technology greatly improves the heat exchange efficiency of the ...

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Zhang Peng, vice-president and chief technology officer of Sugon Data Energy, said that the company's proprietary liquid cooling technology involves immersing computing equipment like ...



## Liquid cooling: The unsung hero of AI?

Chris Carriero, CTO at Park Place Technologies, explains why liquid cooling is now mission-critical. As we experience the AI revolution, the promise of advancements in fields like healthcare, education and ...



## Accessen Promotes Liquid Cooling Innovation for AI Computing ...

The Technical Code for Liquid Cooling Systems in Data Centers (T/CECS 1722-2024), jointly led by the China Data Center Committee (CDCC) of Zhongshu Zhihui ...



## Sugon Digital launched a low-PUE data center ...

3 ???· Recently, Sugon Digital, a leading company in the field of high-performance computing in China, disclosed its self-developed low-PUE data center liquid cooling solution, which is expected to help data center ...

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