



# Huawei liquid cooling energy storage system concept stocks

What is Huawei icooling@ai?

Based on its extensive experience in data center construction, Huawei launched the iCooling@AI solution powered by big data and AI. The solution further reduces the energy consumption of data centers while enabling smart cooling of large data centers and cutting PUE.

How does Huawei indirect evaporative cooling work?

Huawei indirect evaporative cooling directly taps into the lithium battery energy storage system. In other words, the upper-level UPS is reduced and the UPS lithium battery is directly connected, simplifying power distribution links and reducing CAPEX by 10%. This design does not only reduce electricity costs through peak-valley energy storage.

What is Huawei fusioncharge liquid-cooled power unit?

Huawei FusionCharge Liquid-Cooled Power Unit creates an ultra-fast and comfortable charging experience for EV owners with a maximum current of 500 A and charging noise of less than or equal to 55 dB. The fully liquid cooling design extends the service life to 10+ years while requires little manual maintenance thanks to its high reliability.

How does Huawei icooling improve PUE and CLF?

Huawei uses iCooling integrated energy efficiency optimization technology to further improve PUE and the Cooling Load Factor (CLF) under the condition that the hardware conditions remain unchanged. As the world focuses on carbon neutrality, energy conservation, and sustainable development, the data center industry also should share these goals.

What is Huawei cooling convergence?

Huawei has adopted an innovative concept of cooling convergence. Based on the original design of the previous ones, the latest solution is an integrated, all-in-one system, with further optional components available including dehumidifiers, humidifiers, shutoff, and fire extinguishing dampers.

What is a full liquid cooling solution?

To address this challenge, Huawei developed a full liquid cooling solution. In a closed liquid-cooled cabinet, all heat is dissipated in liquid, reducing the power consumption of cooling systems by 96% and cutting the power usage effectiveness (PUE) from 2.2 to 1.1, compared with a conventional air cooling solution.

The new energy storage system comes with multiple battery capacities for diverse scenarios. A 97 kWh battery, charging at 1C, even allows a small industrial entity to deliver optimal benefits. LUNA2000-97/129/161/200KWH, allows seamless ...



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Huawei's indirect evaporative cooling directly supports the lithium battery energy storage system and keeps the compressor running during mains switchover. This effectively eliminates temperature fluctuations in data centers, better meeting ...

Converged with PV system and ESS, Huawei Fully Liquid-Cooled Ultra-Fast Charge solution helps build a new energy infrastructure to advance electromobility. The liquid-cooled power unit delivers 720 kW high power. ...

One of the key devices for realizing the vision of a zero-carbon household is the residential energy storage system. Huawei FusionSolar's residential Smart String ESS, the LUNA2000-7/14/21-S1 (hereinafter referred ...

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ESS are designed to complement solar PV systems and provide reliable and sustainable power. FusionSolar's ESS solutions are modular, scalable, and adaptable to different energy demands and applications.,Huawei FusionSolar ...

Huawei FusionCharge Liquid-Cooled Power Unit creates an ultra-fast and comfortable charging experience for EV owners with a maximum current of 500 A and charging noise of less than or equal to 55 dB [2]. The ...

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