JinkoSolar liquid-cooling ESS enables Hangzhou First Applied Material Co., Ltd to upgrade energy storage safety

JinkoSolar's SunGiga has become a ne
high-growth track and is widely deployed wit
the C&I market due to its high degree of safe
and reliability, combined with cost reduction a
increased efficiency.

As large-capacity and high-rate energy stora
systems become a trend, energy storage safe
issues are gradually being paid attention to. U
grading the energy storage thermal manag
ment system is one of the solutions to improve t
safety of energy storage systems.

that of air, and the specific heat capacity is 4 times that of air. It has the characteristics of large heat-carrying capacity, low flow resistance, and high heat exchange efficiency. The air-cooling systems can control the temperature difference to ≤10 ℃, the conventional liquid cooling system can reduce the temperature difference to 3 ° C, while JinkoSolar' s liquid cooling can lower the temperature difference down to 2℃. This significantly improves the uniformity of the battery during charging and discharging and is expected to extend the battery life by more than 2 years.

With the rapid development of the domestic energy storage market, downstream energy storage integrators and end-user business customers are accelerating the deployment of energy storage liquid cooling technology, and adapting to the changing needs of the market. As more and more practical application projects are involved, JinkoSolar' s liquid cooling ESS solutions are quickly becoming mainstream in the C&I energy storage market.

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