

JinkoSolar to Deliver SunGiga C&I Storage System for ESS Project in Zhejiang

JinkoSolar, one of the largest and most innovative solar module manufacturers in the world, has announced it has delivered a 430kWh ESS project in Zhejiang, China with the company's liquid cooling C&I energy storage system, the JKS-215KLAA-100PLAA.



Figure 1: Project Photos

Increased safety, lower LCOE, easier integration, and operation & maintenance (O&M) costs, are always major concerns for stakeholders when choosing an ideal C&I ESS. JinkoSolar, based on its decades of experience in the energy industry, leading technology, and manufacturing excellence, launched its competitive C&I liquid cooling ESS, the SunGiga.

JinkoSolar's SunGiga C&I ESS provides a modularized design with a variety of battery capacity options, ranging from 200kWh to 2MWh, and is designed for applications that require energy storage for two to four hours. This solution simplifies the transportation, installation, and operation and maintenance (O&M) processes associated with energy storage solutions through a combination of several components, including lithium-ion batteries, a liquid cooling system, a power conversion system (PCS), an energy management system (EMS), and a fire suppression system (FSS), streamlining the transportation, installation, and O&M.

The SunGiga was pre-commissioned so that all parameters were set before leaving the factory, decreasing on-site commissioning time and guaranteeing early revenue for project owners.

Due to the liquid cooling technology, the SunGiga C&I ESS comes with a lower battery temperature difference, extending the lifetime of batteries and significantly improving the charging and discharging efficiency. Compared with the conventional air-cooling design, the liquid cooling system also significantly reduces thermal management energy consumption. The automatic state of charge (SOC) calibration and the automated coolant refilling considerably reduce operation and

Safety is the top priority for battery system technology. JinkoSolar's SunGiga offers comprehensive safety design from the cell, electrical, and system levels. AI-assisted cell monitoring technology performs high-precision online computing of cell status and provides early-stage warnings to prevent thermal runaway.

SunGiga offers temperature, humidity, and combustible gas detection as well as a ventilation system as standard FSS configuration.



