

JinkoSolar Supplies 25 Sets SunGiga C&I Energy Storage System in Guangdong

JinkoSolar, the global leading solar PV and ESS solution supplier, announced that it has delivered 25 sets of its liquid cooling C&I energy storage systems (JKS-215KLAA-100PLAA) to Xiaodong Renewable Energy Co. Ltd., endowing a total capacity of 5.375 MWh, in Dongguan, China's Guangdong province.

JinkoSolar's SunGiga C&I ESS is a portfolio with a battery capacity ranging from 200kWh to 2MWh, available for two- to four-hour applications. The solution combines lithium-ion batteries, a power conversion system (PCS), an energy management system (EMS), and a fire suppression system (FSS), streamlining the transportation, installation, and operation and maintenance (O&M).

“Safety, Smart and Easy” is the design philosophy of SunGiga the new generation liquid cooling C&I ESS. As a result of advanced technologies, the SunGiga boasts an advanced liquid cooling battery system, enabling precise temperature control and temperature differences between cells that are no greater than 2°C, extending the lifetime of batteries and significantly improving the charging and discharging efficiency. It offers an all-round comprehensive safety design from the cell to system level. AI-assisted cell monitoring technology performs high-precision online computing of cell status and provides early-stage warnings to prevent thermal runaway. Five layers of monitoring and controlling mechanisms to detect any abnormalities. The perfluoro fire protection system is normally equipped within this product. As a result, it ensures system safety across multiple aspects.

Furthermore, the automatic state of charge (SoC) calibration and the automated coolant refilling system considerably reduce operation and maintenance (O&M) costs.



Figure 1: Project Photos

Located in 5 industrial parks, the 25 sets of JinkoSolar's SunGiga liquid cooling storage system (ESS) coupled with renewable energy contribute to grid stability. In addition, the high price of electricity during peak period in Guangdong Province brings a considerable amount of electricity expenses to enterprises, so these 5.375 MWh products play a key role in peak shaving and valley filling.

