Building Your Trust in Solar

JinkoSolar Powers Up Israel with Cutting-Edge 10MWh DC-Side Battery Storage System for Renewable Energy Solutions

JinkoSolar today announced it has delivered a 10MWh of DC-side battery storage system to Israel. With this pre-installed high energy density ESS, which is scalable, controllable, and flexible, a high-resilient renewable generation system, peak shaving, and backup power are ensured.

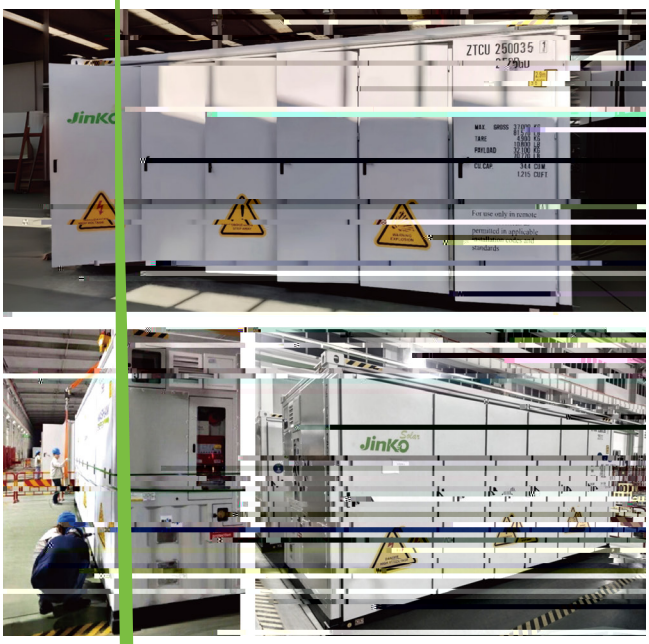

Figure 1: Project Photos

JinkoSolar's energy storage battery cabinets are an integrated high-energy density, long-lasting, battery energy storage system. Each battery cabinet includes an IP67 battery rack system, battery management system (BMS), fire suppression system (FSS), thermal management system, and auxiliary distribution system. It is manufactured to be an install-ready and cost-effective part of the total on-grid, hybrid, off-grid commercial/industrial, or utility-scale battery energy storage system.

Battery Packs utilize Lithium Iron Phosphate (LiFePO4) battery cells connected in voltage DC configurations. Liquid cooling (air cooling as optional) is integrated into each battery cabinet. NOVEC1230 fire suppression is also integrated into each outdoor cabinet allowing for a safer and more controlled energy storage system design for firefighting. The battery pack, string, and cabinets are certified by TUV to align with IEC/UL standards of UL 9540A, UL 1973, IEC 62619, etc.

Tighter control over subcomponent lead times enables a predictable supply chain, which allows the punctual delivery of high-quality products. The batteries and BMS systems are pre-integrated, and the systems are fully tested before being shipped to customers. This gives customers confidence in the product they receive and provides customers with a single entity that is responsible for manufacturing and delivering the solution.

For the global energy storage system (ESS) market, JinkoSolar promotes UL, IEC, and regional-specific certified products such as battery cells, modules, packs, racks, and DC battery blocks. For the DC side market, JinkoSolar' s most popular offerings are the fully integrated 20-foot DC battery container block solutions that come in 2 variants — the air-cooled version at 1.5MWh and the liquid-cooled version at 3.4 MWh.

Serial number	300Ah cell	
Number of cells	3564	
Nominal energy	3.38MWh	
Nominal caCr)iky	1350Ah	
Nominal voltage 0nC stdq	1267V	
Dr voltage rangq	1108.8~1425.6	396×(2.8~3.6V)
Nominal charge %dincharge cfre g	1350A	
Number of cycles	＞6000 cycles	0.5P@ 90%DOD, 25±2°C
pharge reke Dfion rafke 0Co(	≥95%	25±2°C, 100%soc, 28day
caE ar Dfq	＞15 years	25±2°C, 50%SOC, 70% EOL
OperaDfingkemperaDftq	15°C~40°C	
OperaDfingmimiky	5%~90%	
Overallmive7steW	6058*2438*2896mm	
Dtal Engg	About 36T	
inDuaDfion reDfinxfe	＞0.1KΩ / V	
FaDfd chargemincharfge raDfit	0.5P	

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