BSLBATT®
Best Solution Lithium Battery

ESS-GRID S314

More Flexible C&I Energy Storage Solution



80.34 kWh - 241.1 kWh

The ESS-GRID S314 is a high-voltage, modular battery system designed for small-scale C&I (Commercial & Industrial) energy storage applications. It features a wireless stackable structure, with a single module capacity of 16 kWh and a maximum cluster capacity of 241 kWh. It offers unparalleled flexibility for small-scale commercial and industrial applications.

Wireless, Stackable Design
Allows for easy, tool-free installation.

Module-level Independent Fan Control
Extends individual battery cell lifespan.

Modular Architecture
Allows for scaling from 7 to 15 modules per cluster.

Up to 10 Clusters
Can be connected in parallel, reaching a capacity of **2.4 MWh.**

Features Active Balancing
To ensure seamless battery pack replacement.

Compatible with
30-125 kW inverters.

Specification

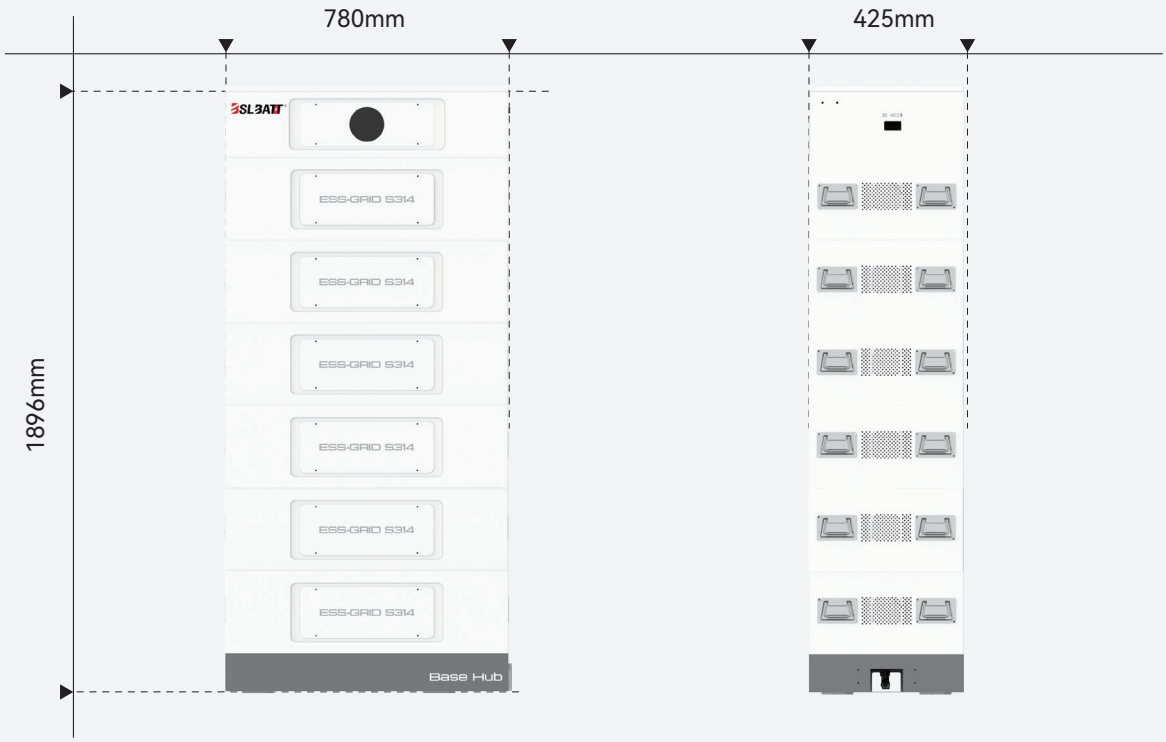
DC313.6V ~ DC852.0V, 80.34kWh ~241.1kWh

Series Name	ESS-GRID S314			
Battery Pack				
Rated Capacity	314Ah			
Battery Type	Lithium Iron Phosphate (LiFePO4)			
Configuration	1P16S			
Rated Voltage	DC51.2V			
Rated Charge/Discharge Current	157A			
Rated Energy	16.07kWh			
Cooling Method	Intelligent Air Cooling			
Weight	110kg±1%			
Dimensions (W*D*H)	780*425*228(266)mm(±5)			
Battery Cluster				
Battery Model[1]	ESS-GRID S314-7	ESS-GRID S314-10	ESS-GRID S314-13	ESS-GRID S314-15
Number of Battery Packs	7	10	13	15
System Rated Voltage	DC358.4V	DC512.0V	DC665.6V	DC768V
Operating Voltage Range	DC313.6V~397.6V	DC448.0V~568.0V	DC582.4V~738.4V	DC672.0V~852.0V
System Rated Energy	112.5kWh	160.7kWh	208.9kWh	241.1kWh
Rated Charge/Discharge Current	157A			
Max. Charge/Discharge Current	200A			
Peak Discharge Current(25℃)	280A, 3 min			
Cycle Life	＞8000 Cycles (80%DOD@25℃,0.5C)			
General Parameters				
Operating Temperature	-20℃ ~ +55℃			
Storage Temperature	0℃ ~ +35℃			
Operating Humidity	10% - 90% RH (non-condensing)			
Altitude	＜3000m			
Installation Environment	Indoor			
Heat Dissipation Method	Intelligent Air Cooling			
PACK-level Fire Protection	Equipped			
Communication Method	CAN / RS485			
Protection Rating	IP20			
Number of Parallel Clusters	Max. 10 clusters			
Dimensions (W*D*H, mm)[2]	780*425*1896(±10)	2060*425*1440(±10)	2060*425*1806(±10)	2060*425*2034(±10)
Weight[2]	812kg±3%	1168kg±3%	1498kg±3%	1718kg±3%
Warranty	10 years			

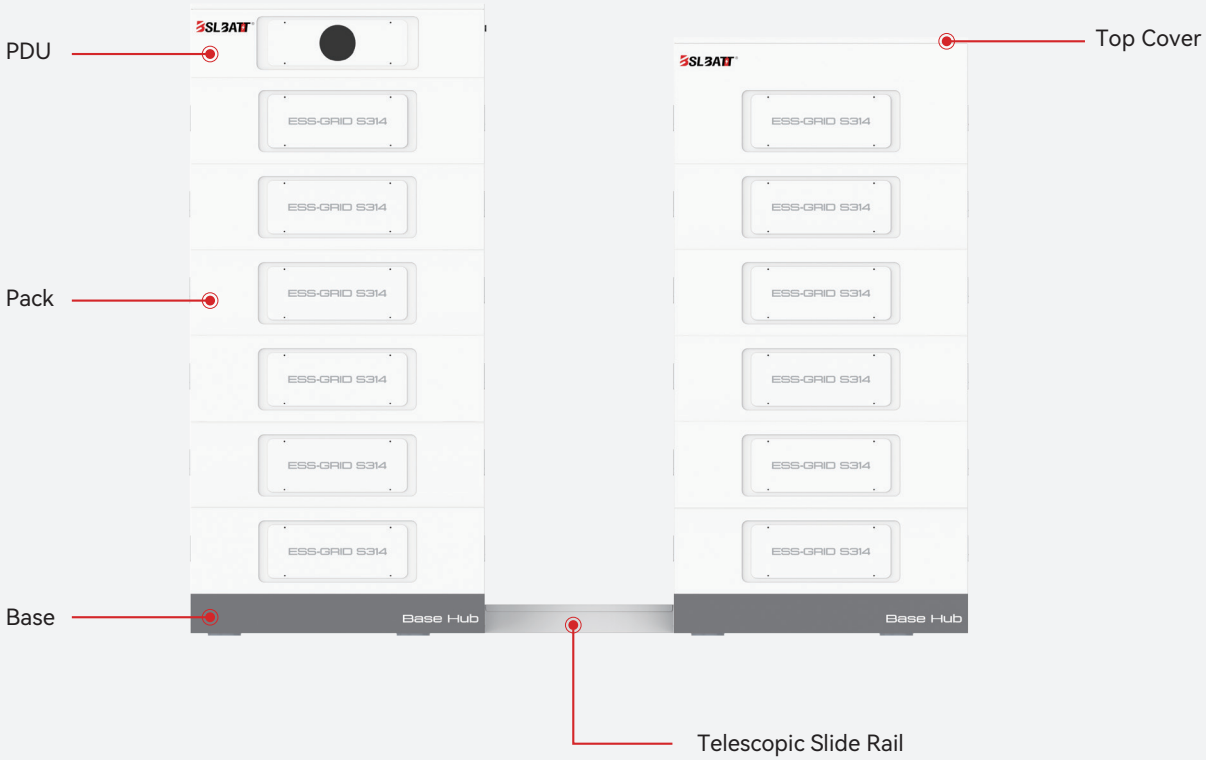
1. A battery cluster can be composed of 7~15 battery packs; when the number of battery packs exceeds 8, the battery cluster must be installed in two columns.
2. Due to different production batches, product dimensions and weight may vary slightly; please refer to the actual product.

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Dimensions (W*D*H)



System Productization



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