

RESS E20

RESIDENTIAL ENERGY STORAGE BATTERY (MODULE)



High Energy Density

The RESS battery module (51.2V/65Ah) is specifically designed for energy storage systems, delivering a total energy of 3.3 kWh per module. With its compact design, this module offers a high energy density of 196 Wh/L, making it easily integrable into various storage systems.



Flexible Design

The module is designed with flexibility in mind to accommodate both high and low battery voltage systems. When connected in parallel, it can create a low-voltage battery platform, expanding energy capacity. Conversely, when connected in series, it can build a high-voltage battery platform, offering even more energy capacity.



Long Service Life

This module uses high-performance LFP battery cells, ensuring safety and providing excellent lifetime performance. The cycle life exceeds 6000 cycles @ 100% DOD (75% EOL), offering a long-lasting solution for your energy storage needs.



High Reliability

This battery module meets UN38.3 and UL9540A certifications, ensuring the safe and reliable operation of your energy storage system.

TECHNICAL DATA

Module	
Battery Block Number	RESS-BB-05165
Battery Block Capacity (kWh)	3.3
Rated Battery Module Voltage (V)	51.2
Rated Discharging Current (A)	32.5
Max Discharging Current (A)	65
Rated Charging Current (A)	32.5
Max Charging Current (A)	48.7
Battery Module Dimensions (W *H*D) (mm)	323*409*128
Battery Module Net Weight (kg)	29
Environment	
Operating Temperature	-10°C~50°C*
Operating Humidity	0~95%RH
Operating Altitude	<=3000m
Enclosure Protection Rating	IP20
Warranty	10years
Cycle File	>=6000 cycles @ 75% EOL,25°C,100% DoD
Certification	
Certification	UN38.3/UL9540A

* Charge derating will occur between -10 °C and +5 °C

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