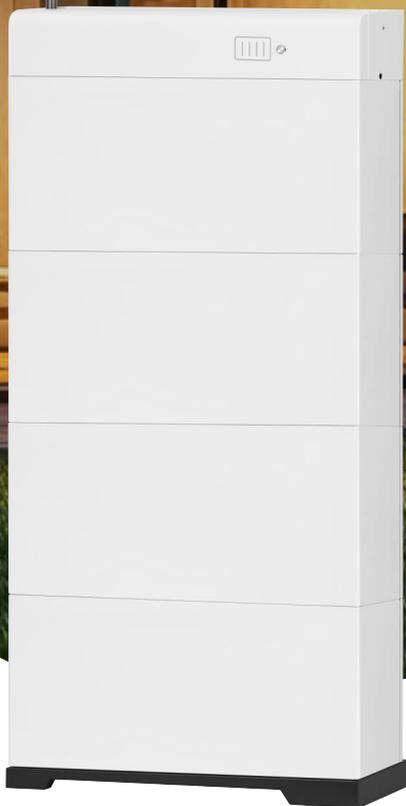




ACETECH

RESS E20

RESIDENTIAL ENERGY STORAGE SYSTEM (LOW VOLTAGE)



Wide Environmental Compatibility



Support for temperatures as low as -20°C with an integrated heating function.



High Safety



Compliance with the latest VDE-AR-E 2510-50 battery certification.

KEY FEATURES



Long Service Life



Battery cycle life over 7000 at recommended condition.



IP66 Rating



IP66 water- and dust-proof, supports both indoor and outdoor installation.



High Usage



Battery usable energy up to 95%.

TECHNICAL DATA

Model Number	RESS-BS-5-L0	RESS-BS-10-L0	RESS-BS-15-L0	RESS-BS-20-L0	RESS-BS-25-L0
System					
Battery System Energy (kWh)	5	10	15	20	25
Usable Energy (kWh)[1]	4.75	9.5	14.25	19	23.75
Number of Battery Modules	1	2	3	4	5
Rated Battery Voltage (V)	51.2	51.2	51.2	51.2	51.2
Operating Battery Voltage Range (V)	44.8~56	44.8~56	44.8~56	44.8~56	44.8~56
Max. Output Power (kW)	5.12	7.68	10.75	12.29	13.82
Recommended Charging/Discharging Current (A)[2]	50	100	150	200	250
Max. Charging/Discharging Current (A)[2]	100	150	210	240	270
System Dimensions (W*H*D) (mm)	725*480*200	725*780*200	725*1080*200	725*1380*200	725*1680*200
System Net Weight (kg)[3]	57	104	151	198	245
Communication	RJ45 (RS485, CAN)				
Module					
Battery Module Model Number	RESS-BM-051100-L0				
Battery Module Energy (kWh)	5.1				
Battery Module Usable Energy (kWh)	4.75				
Rated Battery Module Voltage (V)	51.2				
Battery Module Dimensions (W*H*D) (mm)	725*300*200				
Battery Module Net Weight (kg)	46				
Battery Power Distribution Model Number	RESS-PD-051100-L0				
Control Box Dimensions (W*H*D) (mm)	725*130*200				
Control Box Net Weight (kg)	7				
Environment					
Operating Temperature [4]	Charge: 0°C~50°C Discharge: -20°C~50°C				
Operating Temperature (With Integrated Heating Module)[5]	Charge: -20°C~50°C Discharge: -20°C~50°C				
Operating Altitude	<=4000m				
Installation	Wall-mounted or Floor-mounted				
Ingress Protection Rating	IP66				
Warranty	10years				
Cycle Life	>=7000 cycles[6] >=7000 cycles @ 70% EOL,25°C,95% DoD				
Scalability[7]	Max.15 Modules in parallel (75kWh)				
Certification	IEC62619/VDE2510//CE/UN38.3; UL1973/UL9540A (Only for US version)				

[1]Test Conditions - Temperature 25°C, at the beginning of life, cell charge voltage between 2.8~3.5V, 0.5C.

[2]Depends on the max. battery charge/discharge power of the inverter and BMS communication between inverter and battery system.

[3]+/-3%, for accurate product weight please refer to actual product packaging label.

[4]Charge derating occurs between -20°C~10°C. Discharge derating occurs between -20°C~0°C, 45°C~55°C.

[5]Module with integrated heating function needs time to warm internal battery cells till it meets charge/discharge temperature range.

The heating duration depends on the ambient temperature and system work mode.

[6]25°C ambient temperature, recommended charging/discharging current.

[7]Need extra power distribution enclosure to do battery clusters parallel, each cluster has max. 5 Modules.

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