



Battery

Residential ESS - EU/CA

This series products are compact solution for energy storage or backup needs of home user or smaller business.

It can provide backup power to avoid losses when power stopping. Moreover, It can store power from solar charging power during the day time or from grid power during low-price period and supply power during high-price or heavy loading period to achieve the purpose of saving energy and electricity bills.

Product HIGHLIGHT



Stable & Reliable: LFP cells paired with a high-performance processor, IP66 protection rating, and precise aerosol fire suppression system.



Smart Management: Supports remote fault diagnosis, upgrades, and maintenance; battery heating technology withstands wide temperature ranges; optional 2-in-1 parallel cabling enables convenient expansion, boosting effective capacity by up to 10%.



Flexible Adaptability: Compact, stackable design for easy installation; supports direct battery-to-battery expansion with plug-and-play mixing of new and old batteries, ensuring lossless capacity expansion.

Residential ESS - Battery

Series	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
General Information						
Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operating voltage range	85~116 V	128~174 V	170~232 V	212~289 V	255~347 V	297~405 V
Nominal energy	10.2 kWh	15.3 kWh	20.4 kWh	25.6 kWh	30.7 kWh	35.8 kWh
Depth of discharge(DOD)	100%					
Usable energy(100% DOD)	10.2 kWh	15.3 kWh	20.4 kWh	25.6 kWh	30.7 kWh	35.8 kWh
Rated charge/ discharge power	6.1 kW	9.2 kW	12.3 kW	15.4 kW	18.4 kW	21.5 kW
Max. charge/ discharge power	7.2 kW	10.8 kW	14.3 kW	17.9 kW	21.5 kW	25.1 kW
Recommend charge / discharge current	60 A					
Max. charge / discharge current	70 A					
Cycle life (100% DOD)	> 6000 cycles					
Warranty	5-10 years					
Series	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
General Information						
Nominal voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operating voltage range	340~463 V	382~520 V	424~578 V	467~636 V	509~694 V	552~750 V
Nominal energy	40.9 kWh	46.0 kWh	51.2 kWh	56.3 kWh	61.4 kWh	66.5 kWh
Depth of discharge(DOD)	100%					
Usable energy(100% DOD)	40.9 kWh	46.0 kWh	51.2 kWh	56.3 kWh	61.4 kWh	66.5 kWh
Rated charge/ discharge power	24.6 kW	27.6 kW	30.7 kW	33.8 kW	36.9 kW	39.9 kW
Max. charge/ discharge power	28.7 kW	32.3 kW	35.8 kW	39.4 kW	43.0 kW	46.6 kW
Recommend charge / discharge current	60 A					
Max. charge / discharge current	70 A					
Cycle life (100% DOD)	> 6000 cycles					
Warranty	5-10 years					

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Environment Limit	
Charge temperature	-30 ~ 53°C (with heating function) / -20 ~ 53°C (without heating function)
Discharge temperature	-30 ~ 53°C (with heating function) / -20 ~ 53°C (without heating function)
Cooling concept	Natural cooling
Storage temperature	-20°C ~ 30°C (12 months) / 30°C ~ 50°C (6 months)
Relative humidity	4 ~ 100% RH (non-condensing)
Max. operating altitude	≤ 3000 m
Installation type	Stackable
Ingress protection	IP66
Environment	Outdoor / indoor
Mechanical	
Dimensions (W × H × D)	600 × 225 × 376 mm
Weight	18.5 kg
Battery Model	
Battery type	LFP
Scalability	2 ~ 13
Module capacity	5.1 kWh
Dimensions (W × H × D)	600 × 168 × 376 mm
Weight	46 kg / 47.1 kg (with optimizer)
Communication	
Communication interfaces	CAN2.0 / RS485
Standard	
Transport testing requirement	UN38.3
Certifications	IEC62619, IEC62040, EN62477, VDE 2510
Accessories	
Dimensions (W × H × D)	Series box: 600 × 376 × 225 mm ; Base: 600 × 376 × 60 mm
Weight	Series box: 14.6 kg ; Base: 4.7 kg

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