



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



High Performance: Each cluster expands to up to 6 units for a capacity of 34.6 kWh, with 95% DOD and a cycle life exceeding 6,000 times; dual-stage battery heating design ensures both longevity and flexible performance.



Peace-of-Mind Protection: LFP cells paired with a high-performance processor, IP66 protection rating, and precise aerosol fire suppression system, free of toxic heavy metals or corrosive materials.



Smart & Flexible: Supports remote fault diagnosis, upgrades, and maintenance for quick troubleshooting; wall-mounted or floor-standing installation adapts to diverse site requirements.



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General Infomation						
Nominal voltage	115.2 V	230.4 V	345.6 V	460.8 V	576 V	691.2 V
Operating voltage range	100~130 V	200~260 V	300~390 V	400~520 V	500~650 V	600~750 V
Nominal energy	5.8 kWh	11.5 kWh	17.3 kWh	23.0 kWh	28.8 kWh	34.6 kWh
Depth of discharge (DOD)	95%					
Usable energy (95% DOD)	5.5 kWh	10.9 kWh	16.4 kWh	21.9 kWh	27.4 kWh	32.9 kWh
Rated charge / discharge power	2.9 kW	5.8 kW	8.6 kW	11.5 kW	14.4 kW	17.3 kW
Max. charge / discharge power	4 kW	8.1 kW	12.1 kW	16.1 kW	20.2 kW	24.2 kW
Recommend charge / discharge current	25 A					
Max. charge / discharge current	35 A					
Cycle life (95% DOD)	> 6000 Cycles					
Warranty	10 years					
Environment Limit						
Charge temperature	-30 ~ 55°C (On heating function) / 0 ~ 55°C (Off heating function)					
Discharge temperature	-30 ~ 53°C (On heating function) / -20 ~ 55°C (Off heating function)					
Cooling	Natural					
Storage temperature	-20°C ~ 30°C (12 months) / 30°C ~ 55°C (6 months)					
Relative humidity	4 ~ 100% RH (Condensing)					
Operating altitude	≤ 2000 m					
Installation	Wall mounting / Floor mounting					
Protection	IP66					
Installation environment	Outdoor / indoor					
Mechanical						
Dimensions (W × H × D)	474 x 715 x 150 mm					
Weight	61.5 (±1) kg					
Battery						
Battery type	LFP					
Scalability	1~5					
Module capacity	5.8 kWh					
Dimensions (W × H × D)	474 x 715 x 150 mm					
Weight	59.5 (±1) kg					
Communication						
Communication interfaces	CAN 2.0 + RS485					
Stardard						
Hazardous materials classification	Class 9					
Transport testing requirement	UN38.3					
Protection class	Class I					
Certifications	IEC62619 / IEC63056 / IEC60730 / IEC62040 / IEC61000-1&-3 / EN62477 / VDE2510					

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