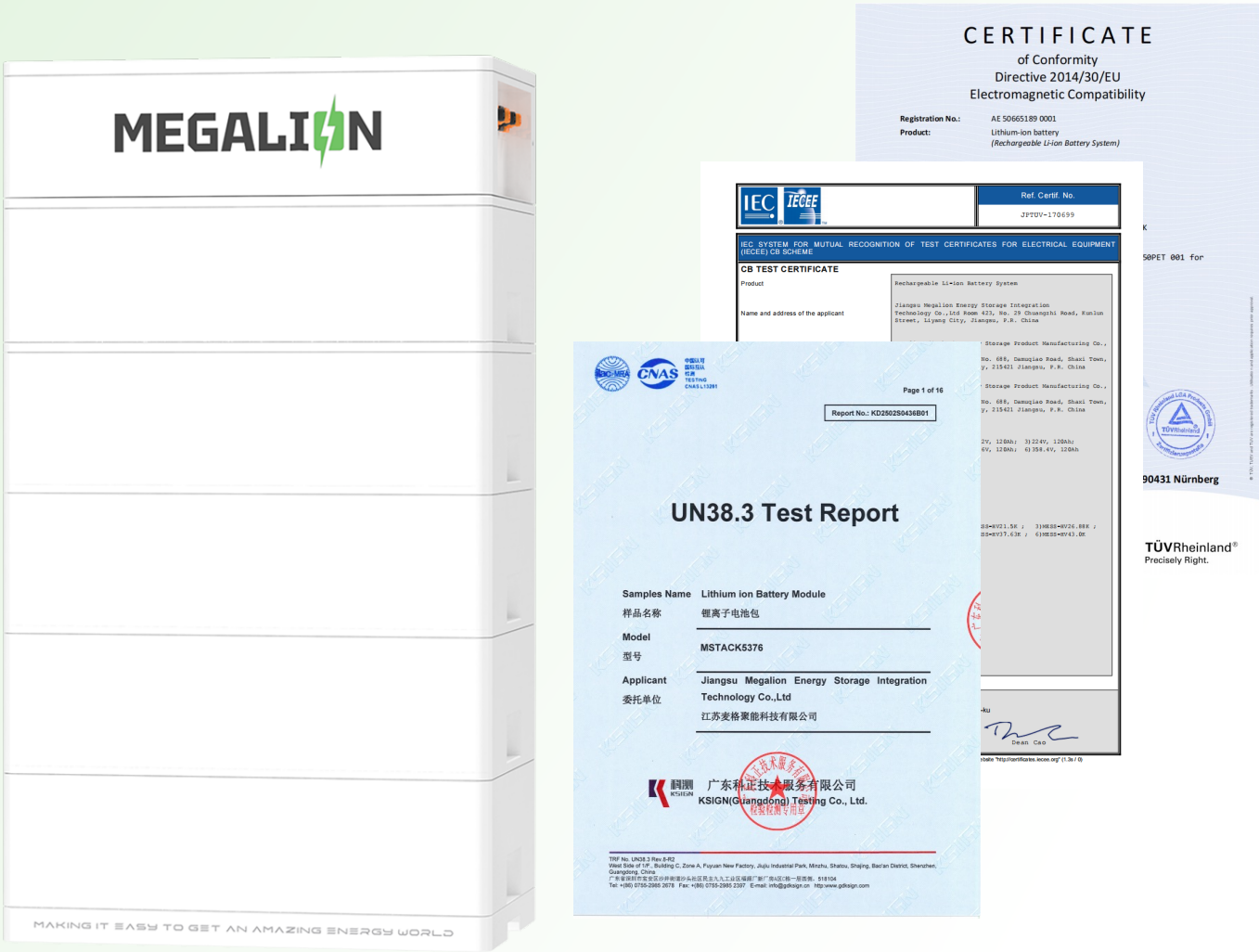


120Ah HV Stackable Residential Energy Storage Matrix

MESS-HV21.5K/26.88K/32.26K/37.63K/43K/48.38K/53.76K/59.14K/64.52K

MESS-HV21.5K~64.52K uses advanced Hybrid Electrolyte Solid State LFP, battery capacity of 120Ah, not only has a long life, but also has the dual guarantee of high efficiency and safety. Stacked design, support maximum 12 packs. With a storage capacity of up to 64 kWh and a wide system voltage range, which can flexibly adapt to various residential electricity needs.



01

High safety

Safe and reliable cutting-edge prismatic Semi Solid State LFP Batteries

02

Flexible scalability

Stacked design, support maximum 12 packs

03

Easy Installation

Modular design, plug and play

04

Ultra-Intelligence

Big data + AI help to predict power charge/discharge

Application Scenario:
Residential, Utility, Mobile applications

PRODUCT PARAMETERS

Product Model	MESS-HV21.5K	MESS-HV26.88K	MESS-HV32.26K	MESS-HV37.63K	MESS-HV43K	MESS-HV48.38K	MESS-HV53.76K	MESS-HV59.14K	MESS-HV64.52K
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Electrical Parameter

Battery Chemistry	Hybrid Electrolyte Solid State LFP								
Battery Capacity	120 Ah								
System Configuration	1P56S	1P70S	1P84S	1P98S	1P112S	1P126S	1P140S	1P154S	1P168S
Total Energy	21.5 kWh	26.88kWh	32.26 kWh	37.63 kWh	43 kWh	48.38 kWh	53.76 kWh	59.14 kWh	64.52 kWh
Nominal Voltage	179.2 V	224.0 V	268.8 V	313.6 V	358.4 V	403.2 V	448.0 V	492.8 V	537.6 V
Voltage Range	159.6~200.4 V	199.5~250.6 V	239.4~300.7 V	279.3~350.8 V	319.2~400.9 V	359.1~451.1 V	399.0~501.2 V	438.9~551.3 V	478.8~601.4 V
Max. Charge/Discharge Current	100 A								
Cycle Life	≥ 8000 cell cycles (25°C ± 2°C, 0.5C / 0.5C, 90% DOD, 60% SOH)								

General Parameter

Dimension (W*D*H)	600*423*933 mm	600*423*1103 mm	600*423*1273 mm	600*423*1443 mm	600*423*1613 mm	600*423*1783 mm	600*423*1953 mm	600*423*2123 mm	600*423*2293 mm
Weight	≤205 kg	≤250 kg	≤295 kg	≤340 kg	≤385 kg	≤430 kg	≤475 kg	≤520 kg	≤565 kg

Installation Method	Outdoor / Indoor; Floor Mounted								
Certification	System: IEC62619; IEC60730-1; IEC/EN62477; IEC62040-1; CE; UN38.3 Cell: IEC62619; UN38.3; UL1973; UL9540A								

Environmental Parameter

IP	IP65								
Humidity	0 ~ 90% RH (No condensation)								
Operating Temperature	-25°C ~ 55°C								
Storage Temperature	-20°C ~ 45°C								
Altitude	≤ 2000 m								

This datasheet is intended solely for product information and is not legally binding. The actual specifications and/or product features may differ slightly from those stated. Errors and changes are reserved. Please read the safety and installation instructions carefully and completely before using the product. Upon purchase, the currently valid warranty statements and the general terms and conditions of Megalion Europe GmbH shall apply.