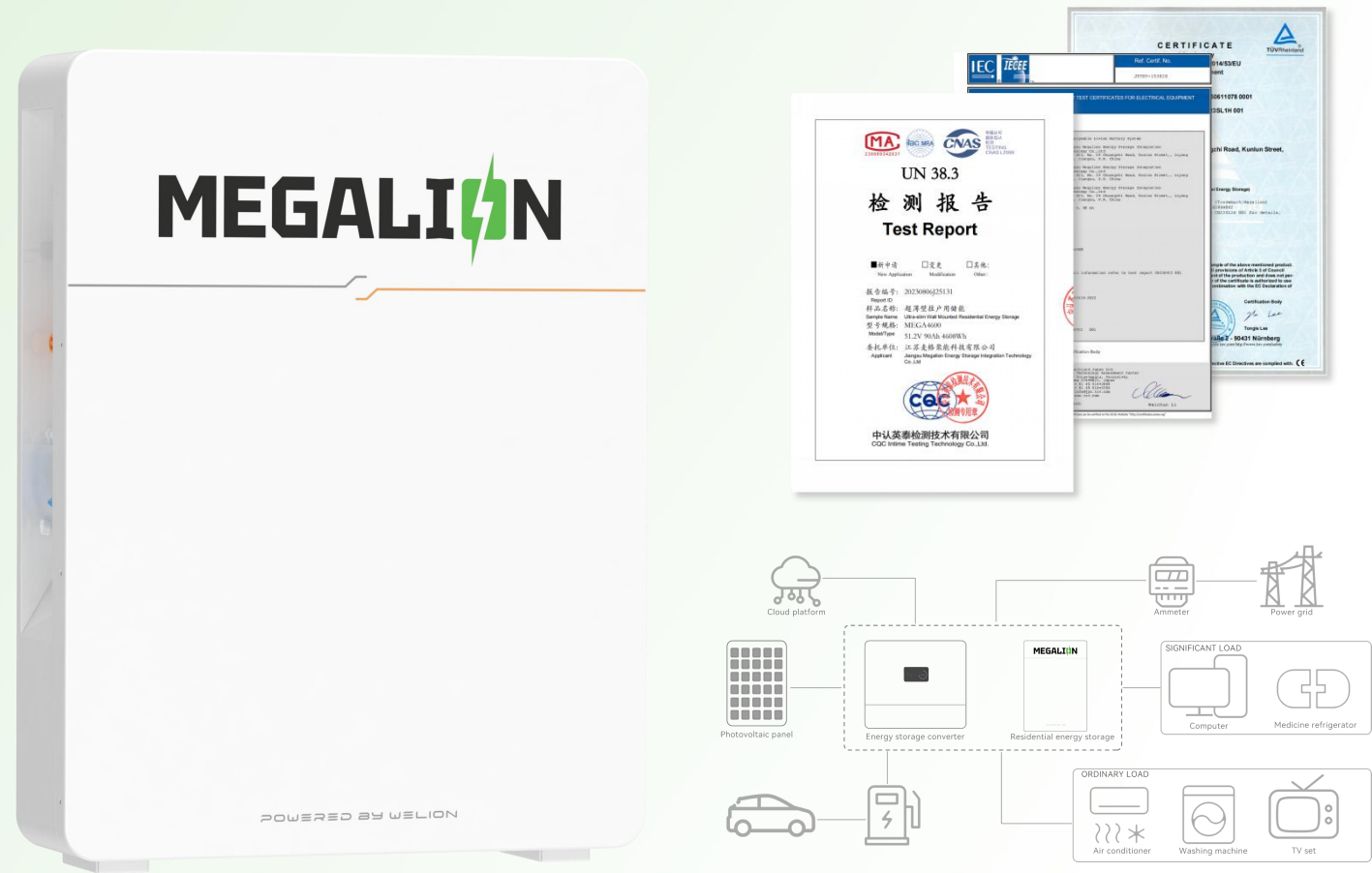


LV Residential Energy Storage Box

MEGA4600

MEGA4600 uses Hybrid Electrolyte Solid State LFP with a cell capacity of 90Ah and a storage capacity of 4.6kWh, which can support the power supply needs of residential electrical equipment, appliances and lighting systems. When there is a power outage or grid failure, it can provide power to the home to ensure that the basic household electricity demand is not affected. By combining with renewable energy systems such as solar panels, energy solutions for home self-sufficiency are realized.



Features

01

High Safety

Cutting-edge hybrid electrolyte solid-state LFP

02

Ultra-long Lifespan

More than 6000 cycles

03

Excellent Compatibility

Compatible with most inverters on the market

Application Scenario:
Residential, C&I, Utility, Mobile applications

PRODUCT PARAMETERS

Product Model	MEGA4600
Electrical Parameter	
Battery Chemistry	Hybrid Electrolyte Solid State LFP
Battery Capacity	90 Ah
Total Energy	4.608 kWh
Nominal Voltage	51.2 V
Voltage Range	47.2~57.28 V
Charging / Discharging Current	45 A / 50 A
Cycle Life	≥6000 (25 °C±2°C, 0.5C / 0.5 C, 90% DOD, 70% SOH)
Communication Interface	CAN / RS485 (Optional)
Monitoring Type	Wi-Fi / 4G (Optional)
General Parameter	
Dimension (W*D*H)	545*155*725 mm (Without bracket)
Weight	≤60 kg
Installation Method	Wall-Mounted
Certification	System: IEC62619; IEC60730-1; EN61000-6-1/3; UN38.3; CE Cell: IEC62619; UN38.3; UL1973; UL9540A
Environment Parameter	
IP	IP65
Humidity	0~95% RH (No condensation)
Environment Temperature	Charge 5~50°C; Discharge -19~57°C
Storage Temperature Range	<1month -10~50°C; <3months 0~45°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.