

Model		LFP 5120M	LFP 10240M	
		Technical Specifications		
Total Energy*		5.1kWh	10.2kWh	
Usable Energy(DC)*		4.6kWh	9.4kWh	
Max Charge Power		5.12kW	10.2kW	
Max Discharge Power		7.68kW	10.2kW	
Peak Power(Only Discharge)		8kW for 3s	8kW for 3s	
Voltage		48~56Vd.c		
Nominal Voltage		51.2Vd.c		
Max Charge Voltage		57.6Vd.c		
Max Discharge Current		150A	150A	
Max Charge Current		100A	120A	
Peak Discharging Current		200A/10s		
Weight		46kg	89kg	
Dimension(L*W*H)		442*165*535mm	442*165*920mm	
Max Recommended DOD		93%		
Operating Condition		Indoor		
Operating	Charge	From 0~50°C		
Temperature	Discharge	From -20~55°C		
WIFI Frequency Range		2.4GHz		
Recommended Humidity		<60%(No condensed water)		
Cooling Type		Natural convection .		
Case Material		Metal		
		Black or White		
lestallation		Wall/Ground/Rack Mounting		
IP Rating		IP 20		
Max Connection Number		16P		
Communication		CAN/ RS485		
Protection Mode		Dual hardware protection		
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Safety Hazardous Material		Cell UL 1973/CE		
Hazardous Material Classification		9		
Transportation		UN 38.3		
Product Warranty		10 years warranty, 6000 cycles life 1)For better battery life cycles,we suggest charge in 0.5C @25°C 2)For better battery life cycles,we suggest discharge in 0.5C @25°C		



## What Is Semi-solid State

In solid-state lithium-ion batteries, lithium ions travel between electrodes through a solid electrolyte during the charging and discharging processes. However, full solid-state batteries encounter challenges related to limited contact efficiency between the electrodes and the electrolyte. To overcome this issue, a promising solution is to incorporate small amounts of liquid electrolytes, which can optimize battery performance and extend lifespan.

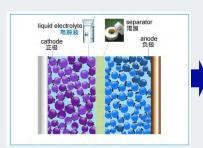
Semi-solid state batteries, the 1st generation of all solid state, offer enhanced safety compared to traditional LFP batteries, as the solid components significantly reduce the risk of leakage. Additionally, the special small amounts inclusion of liquid electrolytes improves ion conductivity, thereby enhancing overall battery performance.

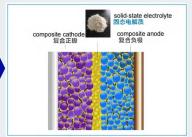


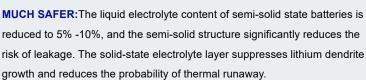




## **Product Advantages**

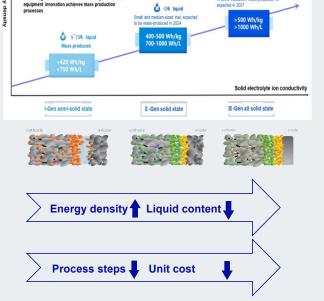






LONGER SPAN LIFE: Solid electrolytes slow down the corrosion and volume expansion of electrode materials, improving long-term stability.

HIGHER COST-EFFECTIVENESS: The semi-solid state battery adopts insitu solidification technology, and only requires partial modification of the liquid battery production line to achieve mass production, greatly reducing equipment investment costs.





traditional battery

Max. temperature rise rate (dT/dt)max(°C/S)

Temperature point Tmax (°C)



300°C ARC Tes

Note: Definition conditions for thermal runaway, temperature rise rate dT/dt ≥ 1°C/S





st (Accelerating Rate Calorimeter)			
olid state LFP Battery	Traditional LFP		
0.235	2.129		
No thermal runaway	471.4		

