

## **FEATURES**









93% Max Recommended DOD (Capacity)





IP 65
Supports indoors and outdoors



No DIP Switch Easy for commission



Versatile Installation Wall/Ground Mounting



## **Technical Specifications**



Model		5120MPlus	
Total Energy*		5.4kWh	
Usable Energy(DC)*		4.9kWh	
Peak Power(Discharge)		6kW for 3s	
Voltage		48~56Vd.c	
Nominal Voltage		51.2Vd.c	
Max Charge Voltage		57.6Vd.c	
Rated Discharge Current		100A	
Rated Charge Current		60A	
Weight		50±1kg	
Dimension(L*W*H)		569*165*560mm	
Max Recommended DOD		93%	
Operating Condition		Indoor/Outdoor	
Operating	Charge	From 0~55°C	
Temperature (Cell)	Discharge	From -20~55 C	
WIFI Bluetooth	n Frequency Range	2400MHz~2483MHz	
Bluetooth Max. Transmisson Power		7.5dBm	
WIFI Max. Transmisson Power		17.8dBm	
Recommended Humidity		<60%(No condensed water)	
Over Voltage Category		II	
Cooling Type		Natural convection	
Case Material		Metal	
Color		Black or White	
Installation		Wall/Ground Mounting	
IP Rating		IP 65	
Communication		CAN/ RS485	
Protection Mode		Dual hardware protection	
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Safety		Cell UL 1973/CE	
Hazardous Material Classification		9	
Transportation		UN 38.3	
Battery Type		Semi-Solid State Battery(Please refer to the instructions on the next page for details)	
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.

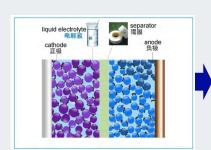


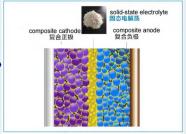


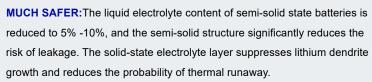


Our products have undergone multiple rigorous tests.

## **Core Advantages**

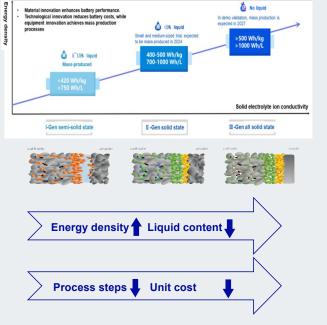






LONGER SPAN LIFE: Solid electrolytes slow down the corrosion and volume expansion of electrode materials, improving long-term stability.

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.

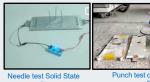




Max. temperatur (dT/dt)max Temperature Tmax (°C

Note: Definition condition







300℃ ARC Test (Accelerating Rate Calorimeter)				
3	Solid state LFP Battery	Traditional LFP		
re rise rate (℃/S)	0.235	2.129		
e point C)	No thermal runaway	471.4		
ions for thermal ru	naway, temperature rise rate dT/dt ≥ 1°C/S			

