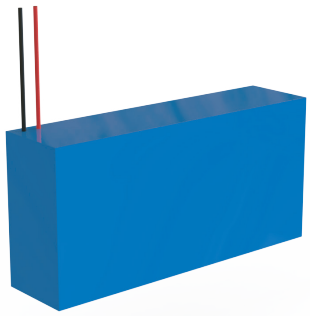
5.12KWh LiFePO4 PVC Battery Product Parameter

MODEL	POWER FORT
Picture	
Product Parameter	
Battery Type	LiFePO4
Nominal Voltage	51.2V
Nominal Capacity	100AH
Nominal Energy	5.12kWh
Shell material	PVC
Communication	Bluetooth, APP (optional)
Resistance	≤50 mΩ @ 50% SOC
Actual volumetric efficiency	≥100% Nominal Energy
Recommended Charge Current	≥20A
Maximum Continuous Discharge Current	≥50A
Recommended maximum load power	≥2kW
Ultimate Maximum load power	≥2.5KW
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	58.4V
BMS charge cut-off release voltage	≤57.6V
Balancing Voltage	≥52.8V
Balancing open voltage	≥52.8V
Recommended Low Voltage Disconnect	≤45V
BMS Discharge Cut-Off Voltage	≤40V
BMS Discharge Cut-Off release voltage	≥46V
Discharge Temperature	-4 ~ 131 °F (-20 ~ 60 °C)
Charge Temperature	-4 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	131 °F (55 °C)
Dimension (L x W x H)	510*150*250mm
Approx. Weight	≈36KG
Enclosure Protection	IP54
Certifications	UN38.3
Shipping Classification	UN 3480
Cycle life	3000 Cycles (25℃, 100% DOD) for effectively lower total of ownership cost
Service life	8 years （Warranty for 3 years）

Key Benefits

High safety: strong thermal stability, resistance to overcharge/overdischarge, not easy to burn and explode.
Long life: Cycle 2000-5000 times, slow attenuation, low long-term cost.
High temperature resistance: wide operating temperature range (-20℃~60℃).
High power: Support large current charge and discharge, strong explosive force.
Low cost: no cobalt/nickel, easy to obtain materials, environmentally friendly recycling.
Widely used: electric vehicle, energy storage power station, industrial equipment preferred.