



# Residential ESS Solution

## Neptune-LB-5.1K



The service life can reach up to 5 years



Discharge temperature:  $-20^{\circ}\text{C}\sim 55^{\circ}\text{C}$



6,000 revolutions per cycle service life



Built-in 120A/125VDC fuse protection



Support up to 20 unit in parallel



Supports multiple communication protocols



Supports floor mount and wall mount to save mounting space



<b>Technical data</b>	<b>Neptune-LB-5.1K</b>	
<b>Rated Voltage/Capacity</b>	<b>51.2V100Ah</b>	
<b>Main parameter</b>		
Battery type	LiFePO4	
Capacity (Ah)	100	
Scalability	Recommend 20 pcs pack (102.4kWh)	
Nominal voltage (V)	51.2	
Operating voltage (V)	43.2~57.6	
Rated Energy(kWh)	5.12	
Usable Energy(kWh)	4.6	
Charge / discharge current (A)	Convention	50
	Maximum	100
<b>Other parameters</b>		
Recommend Deth of Discharge	90%	
Dimension(W×H×D,mm)	440×133×540	
Weight is approximate (kg)	45	
Indicator Lights	LED Indicators(Optional)	
IP Rating of Enclosure	IP20	
Operating temperature(°C)	Charging: 0°C ~55°C (optional heating: -20°C ~55°C)	
	Discharge: -20°C ~55°C	
Storage Temperature(°C)	-10°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle life	≥6000(25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)	
Installation site	Wall-mounted, floor, rack	
Communication port	CAN2.0,RS485	
Warranty Period	5 years	
Certification	UN38.3,IEC62619,IEC60730,EN61000-6-1/-3	