

25.6V 230Ah

Self Heating & Smart

LiFePO4 Battery



Part Number: L24V230-200-HBT-8-A250

Basic Specification

Nominal Voltage	25.6V
Nominal Capacity	230 Ah
Nominal Energy	5888 Wh
Internal Resistance	≤40mΩ
Function	Bluetooth/Low Temp / Self heating
Max. Continuous Output Power	5120 W
BMS Board	200A
Max. Batteries in Series and Parallel	4P2S
System Max. Extended Power	40.96 kW
System Max. Extended Energy	47.104 kWh

Charge Specification

Max. Continuous Charging Current	200A(0.87C)
Recommended Charging Current	46A(0.2C)
Recommended Charging Voltage	28.8±0.4V

Discharge Specification

Max. Continuous Discharging Current	200A(0.87C)
Peak Discharging Current	1000A(4.35C) / s

Environment Specification

Storage Temperature Range	-10°C - 50°C (14°F - 122°F)
Recommended Storage Temperature	10°C - 35°C (50°F - 95°F)
Charging Temperature Range	0°C - 50°C (32°F - 122°F)
Discharging Temperature Range	-20°C - 60°C (-4°F - 140°F)

Mechanical Specification

Dimension(L * W * H)	L20.47*W10.55*H8.66 inch 520*268*220 mm
Weight	Approx. 84.1 lbs/ 38.15 kg
Terminal Type	M8*16mm
Terminal Torque	13±1 N·m
Case Material	ABS
IP Rating	IP65
Cell Type-chemistry	LiFePO4
BCI	Group8D

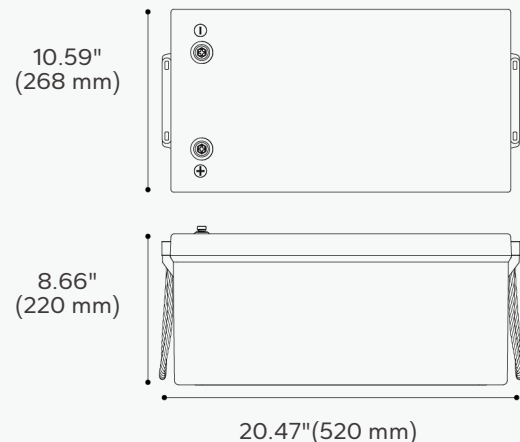
Self-heating Specification

Minimum charging current/A	15A
Heating time range/temperature -1:	50-80 mins (From -10°C / 14°F)
Heating time range/temperature -2	80-120 mins (From -20°C / -4°F)

Safety Specification

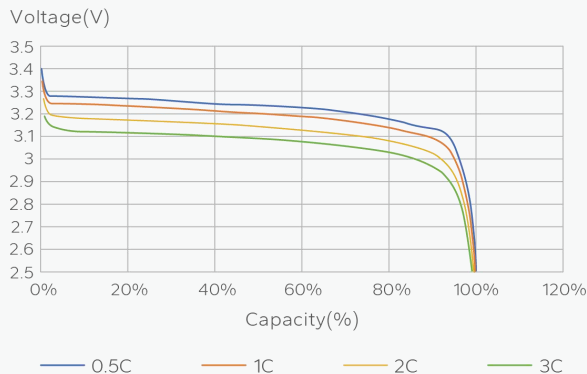
Certifications	CE, FCC, RoHS, UN38.3, UL-1973
Protection	Over-temperature/Over-discharge/ Over-current/Over-voltage/Short-circuit/Low-temperature

Dimensions

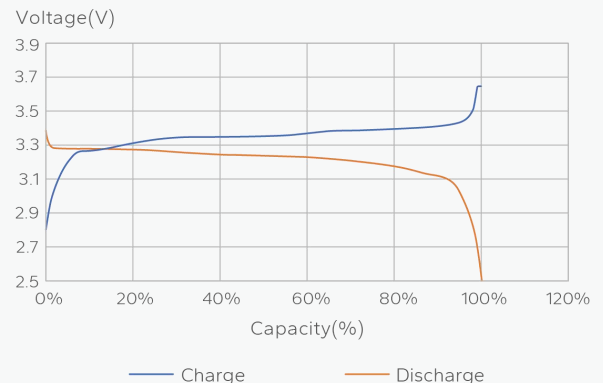


Performance Curves

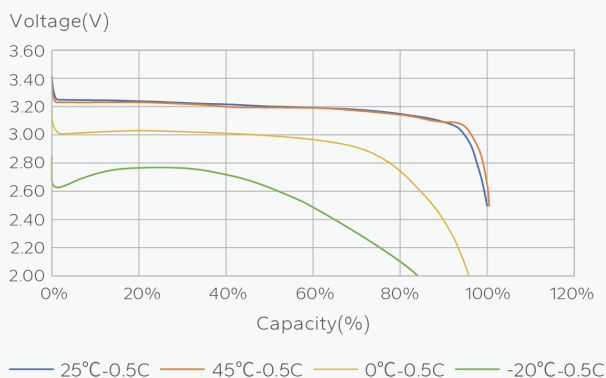
Discharge Performance at 25°C



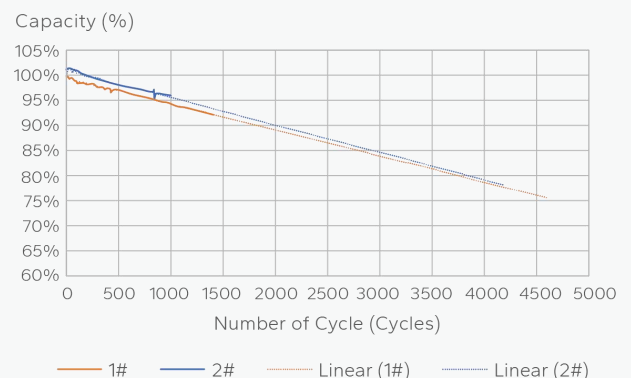
Charge and Discharge at 25°C, 0.5C



Discharge Curves at Different Temperature



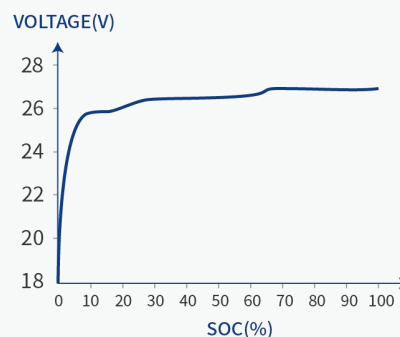
Cycle Life with DOD at 25°C



How to Estimate the Battery Capacity

The battery capacity could be roughly estimated by its **resting voltage** (not charging/discharging voltage). Since the voltage of each battery is slightly different, and the voltage measurement is affected by the measuring instrument, ambient temperature, etc., the following parameters are for reference only.

Resting Voltage: The voltage is measured after the battery has been disconnected from the charger and loads with zero current, and left alone for 30 minutes.



SOC (%)	VOLTAGE (V)
0	20 to 24
25	26 to 26.3
50	26.3 to 26.4
75	26.6 to 26.66
100	≥26.66

① Based on the characteristics of LiFePO₄ batteries, the voltage measured by all LiFePO₄ batteries during charging/discharging is not the real voltage of the battery. Therefore, after charging/discharging and disconnecting the battery from the power source, the voltage of the battery will gradually drop/increase to its real voltage.