

TB4000X

51.2V 100Ah

Smart Lithium iron phosphate battery



Littech 51.2V 100Ah SMART LITHIUM IRON PHOSPHATE BATTERY

Littech Energy home energy storage series battery packs provide flexible installation methods, wall-mounted, stacked, cabinet and other different installation types can adapt to most usage scenarios. Built-in intelligent BMS, temperature protection, voltage protection, built-in power balance, compatible with mainstream inverter brands in the market, supports CAN, RS232, RS485 and other communication methods, the cycle number is up to 6000 times, and it can support up to 15 parallel use, up to 10 Years of global warranty, your best choice for home energy storage.

KEY FEATURES

Auto-Balance

Cell balance design inside the Smart BMS, optional active balance

Ultra-Safety

The Battery management system(BMS) provides comprehensive protection to the battery and manages the charging/discharging process wisely

15p Directly Parallel Connection

The Battery management system(BMS) provides 15 parallel hook up at the same time

Strong Compatible Ability

Can compatible with most of mainstream inverter brands in the market such as Deye, Growatt, Magarevo, Victron, SRNE etc

Lighter and Smaller

482*420*178mm dimension, 48kg only, maintenance free.

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Capacity @20A	300min
Energy	5120Wh
Resistance	≤30mQ @ 50% SOC
Efficiency	99%
Self Discharge	≤3.5% Per Month
Maximum Modules in Parallel	15

MECHANICAL SPECIFICATIONS

Dimensions[L*W*H]	482*420*178mm
Weight	50KG
Terminal Type	Connector
Case Material	Steel
Enclosure Protection	IP20
Cell Type	Prismatic
Chemistry	LiFePo4
Configuration	16s1p

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100A
Peak Discharge Current	150A≤3s
BMS Discharge Current Cut-off	300A±50A[90±10ms]
Recommend Low Voltage Disconnect	46V
BMS Discharge Voltage Cut-off	44.8V[2.8±0.08 vpc][100±50ms]
Reconnect Voltage	48V[3±0.1vpc]
Short Circuit Protection	200-400μs

CHARGE SPECIFICATIONS

Remomend Charge Current	5A-50A
Maximum Charge Current	100A
Recommend Charge Voltage	56-57.6V
BMS Charge Voltage Cut-off	60V[3.75±0.1V]
Reconnect Voltage	55.2V[3.45±0.1V]
Balancing Voltage	56V[3.5±0.025vpc]
Balancing Current	35±5mA

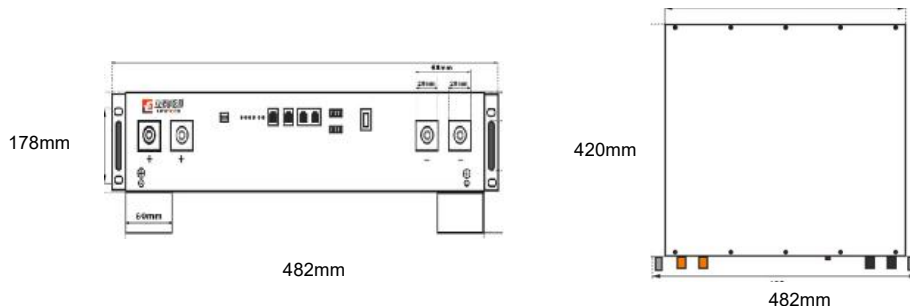
TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140°F[-20 to 60°C]
Charge Temperature	32 to 113°F[0 to 45°C]
Storage Temperature	23 to 95°F[-5 to 35°C]
BMS High Temperature Cut-off Discharge	149F[65°C][Customized]
Reconnect Temperature	122F[50°C][Customized]
Low Temperature Cut-off Charge	32°F[0°C][Customized]
High Temperature Cut-off Charge	129.2°F[54°C][Customized]
Discharge Temperature	-4 to 140°F[-20 to 60°C]

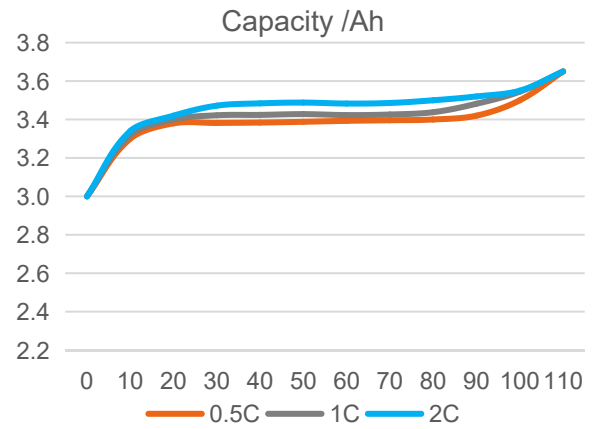
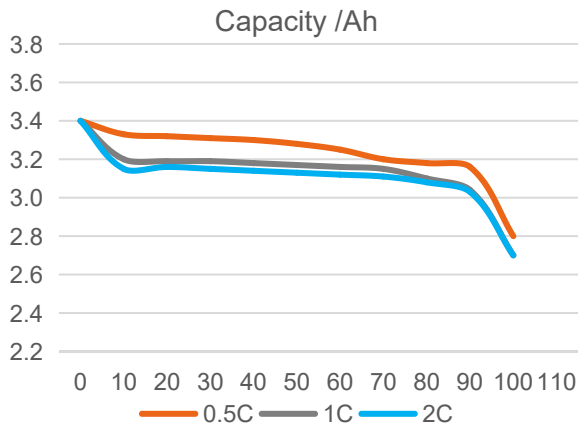
COMPLIANCE SPECIFICATIONS

Certifications	CE[Battery], UN38.3[Battery] IEC62133[cell]
Shipping Classification	UN3480, CLASs9

DIMENSIONAL SPECIFICATIONS

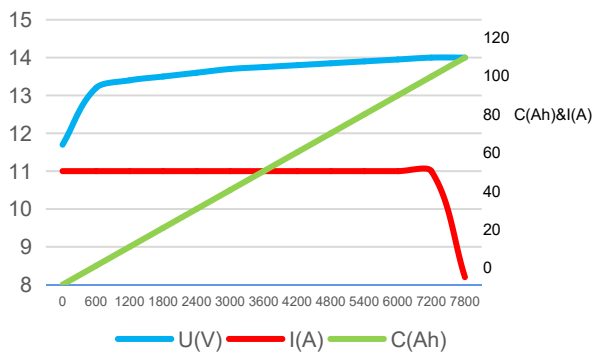


Charge/Discharge Capacity At Different Rates for cell [Room Temperatue]

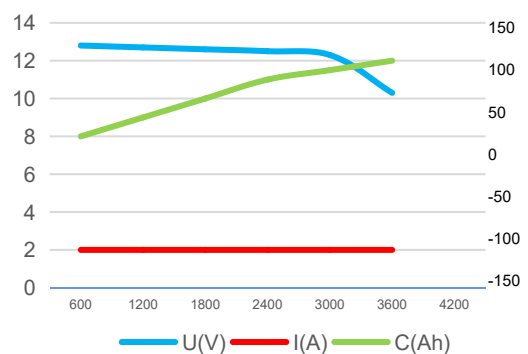


Charge/Discharge Capacity At Different Rates for Battery Pack [Room Temperatue]

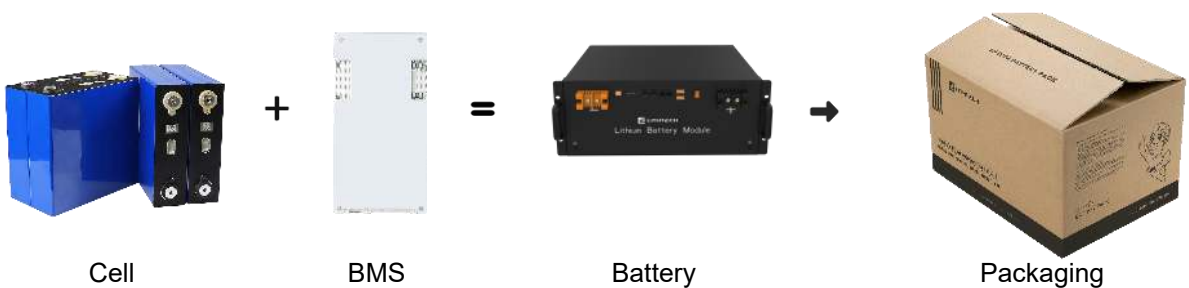
0.5C Charge Voltage & Current & Capacity Curve



1.0C Discharge Voltage & Current & Capacity Curve



PRODUCT DISPLAY





Strive to be the preferred partner
for the Global New Energy Industry

Shenzhen Littech Energy Co.,LTD

Web: www.ltc-energy.com

Email: info@lith-tec.com

Tel: +(00) 86 0755-23300421