

TE12314B

12.8V 314Ah

Smart Lithium iron phosphate battery



Littech 12V 314Ah SMART LITHIUM IRON PHOSPHATE BATTERY

Littech intelligent lithium iron phosphate battery is equipped with automatic balancing function, providing more flexible usage scenarios. The integrated intelligent battery management system (BMS) can not only protect the battery from various abnormal influences. Supervise and manage the charging/discharging process. Built-in high and low temperature protection, ABS reinforced bracket, anti-vibration design, particularly suitable for harsh road conditions and complex usage scenarios, weighing 32kg, with a long cycle service life.

KEY FEATURES

Auto-Balance

Connects multiple batteries in parallel safely without internal state non-uniformity issues.

Ultra-Safety

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

4S4NP Directly Strings up

The battery management system (BMS) supports up to 4 series connections, with no limit on the number of parallel connections (series number *n)

Resist Vibration Design

ABS Reinforce Holder, resist vibration design, especially design for those bad road condition.

Lighter and Smaller

483*170*240mm dimension, 32kg only, easy for lead-acid replacement, maintenance free.

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	314Ah
Capacity @20A	900min
Energy	3840Wh
Resistance	≤30mΩ @ 50% SOC
Efficiency	99%
Self Discharge	≤3.5% Per Month
Maximum Modules in Series or Parallel	4S4NP

MECHANICAL SPECIFICATIONS

Dimensions[L*W*H]	483*170*240mm
Weight	32KG
Terminal Type	M8/M6
Case Material	ABS
Enclosure Protection	IP65
Cell Type	Prismatic
Chemistry	LiFePo4
Configuration	4S1P

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200A
Peak Discharge Current	210A≤10s
BMS Discharge Current Cut-off	760A±120A[300±200ms]
Recommend Low Voltage Disconnect	11.2-12.4V
BMS Discharge Voltage Cut-off	10V[2.5±0.1V][2±1s]
Reconnect Voltage	10.8V[2.7±0.1V]
Short Circuit Protection	560±900μs

CHARGE SPECIFICATIONS

Remomend Charge Current	50A-150A
Maximum Charge Current	157A
Recommend Charge Voltage	14.2-14.6V
BMS Charge Voltage Cut-off	14.6V[3.65±0.1V] [2±1s]
Reconnect Voltage	13.8V[3.45±0.1V]
Balancing Voltage	13.2V[3.3±0.03V]
Balancing Current	200±50mA

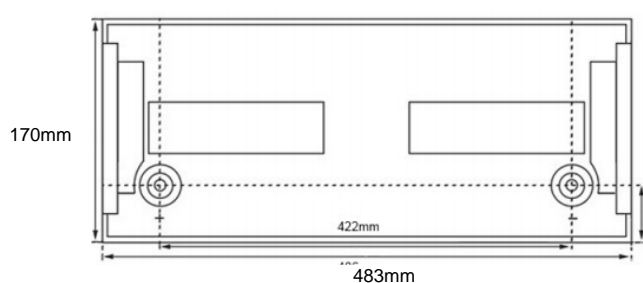
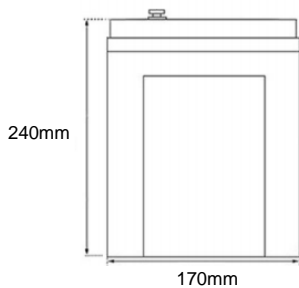
TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140°F[-20 to 60°C]
Charge Temperature	32 to 131°F[0 to 55°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	131°F[55°C][Customized]
Discharge Temperature	-4 to 140°F[-20 to 60°C]

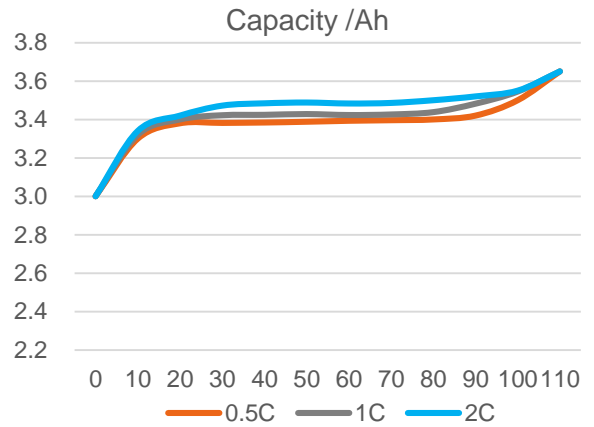
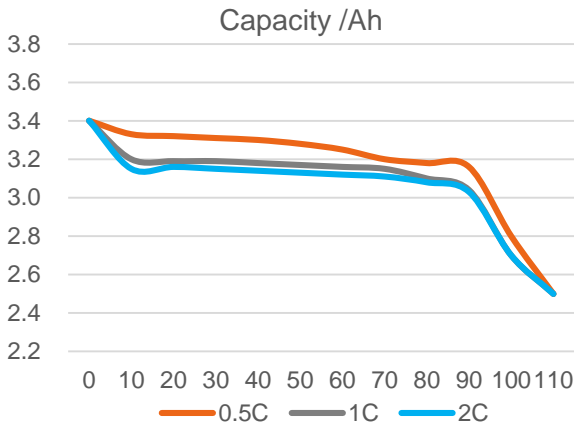
COMPLIANCE SPECIFICATIONS

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

DIMENSIONAL SPECIFICATIONS

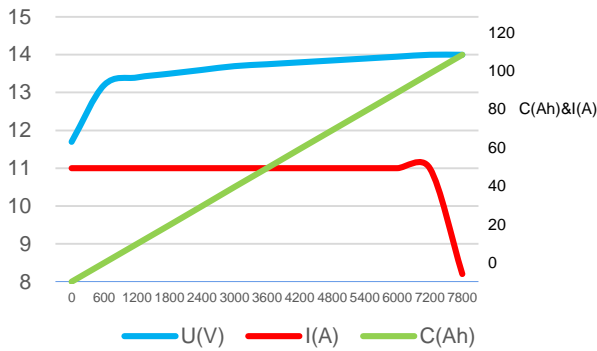


Charge/Discharge Capacity At Different Rates for cell [Room Temperatue]

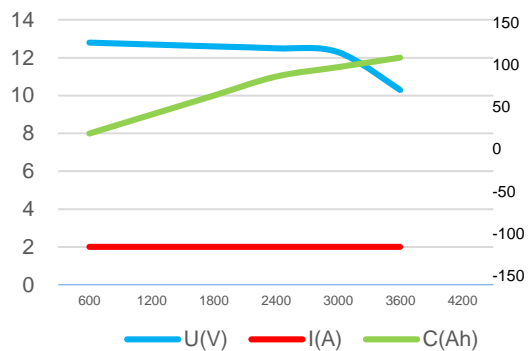


Charge/Discharge Capacity At Different Rates for Battery Pack [Room Temperatue]

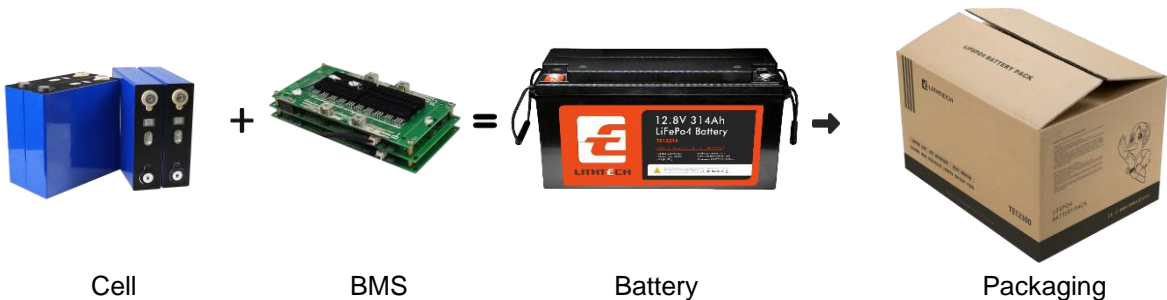
0.5C Charge Voltage & Current & Capacity Curve



1.0C Discharge Voltage & Current & Capacity Curve



PRODUCT DISPLAY





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

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