

LiFePO₄ Smart Battery 12,8V 125Ah

Bluetooth™

 **VOLTIUM**
ENERGY

VE-SPBT-12125



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APPLICATIONS



SPORT & RECREATION



MOBILITY



TRANSPORT



DATA CENTER



MEDICAL



SOLAR



UTILITY



WIND

CERTIFICATES



- ✓ CE certificate
- ✓ UL 1642 cell certificate
- ✓ IEC 62133 cell certificate
- ✓ UN 38.3 certified
- ✓ ISO9001:2015 - Quality management systems



Bluetooth™

DOWNLOAD THE APP OF VOLTIUM ENERGY

With our Bluetooth® app, you can view and monitor the current status of your LiFePO₄ battery!

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LiFePO₄ Smart Battery

12,8V 125Ah

Bluetooth™



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BATTERY SPECIFICATIONS

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	125Ah
Nominal Energy	1600Wh
Internal Resistance	≤20mΩ
Terminal type	T11
Cycle Life (@DOD 100% at 1C and ±25°C)	>3000
Cycle Life (@DOD 100% at 0.2C and ±25°C)	6000
Connection options	4 in series OR 4 in parallel
Communication	Bluetooth®

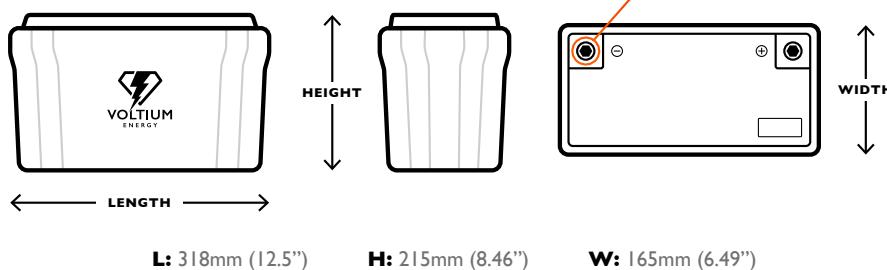
CHARGE SPECIFICATIONS	
Battery operation temperature range @charging	0~45°C
Normal charge voltage	14.6 ±0.1V
Recommended float charge voltage (for Standby use)	13.8 ±0.1V
Max charge current	125A at ±25°C
Recommended charge current	0.2C
Charge Cut-off Voltage	15V ±0.2V

DISCHARGE SPECIFICATIONS	
Discharging temperature range	-20~60°C
Output Voltage Range	10.0~14.6V
Max discharge current	150A at ±25°C
Recommended discharge current	0.2C
Pulse discharge current	400A 3s
Discharge Cut-off voltage	10.0V
Discharge temperature characteristics	-20°C / 70% capacity 0°C / 90% capacity 25°C / 100% capacity 60°C / 102% capacity

MECHANICAL CHARACTERISTICS	
Dimension	Length 318±2mm
	Width 165±2mm
	Height 215±2mm
Weight	Approx. 15.0Kg
Housing material	ABS

STORAGE SPECIFICATIONS	
Storage Temperature	0~25°C
Self-discharge rate	≤3% per month
Recommended storage SOC	50-70% SOC
Storage condition	See manual

DIMENSIONS



L: 318mm (12.5")

H: 215mm (8.46")

W: 165mm (6.49")

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To ensure safe and efficient operation always refer to the latest edition of our Technical Datasheet, as published on our website.

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BMS TECHNICAL SPECIFICATIONS

OVER CHARGE	
Over-charge protection for each cell (delay time)	3.75V ±0.05V (3s)
Over-charge release for each cell (delay time)	3.6V ±0.05V (3s)
Over-charge release method	When voltage is under release voltage
OVER DISCHARGE	
Over-discharge protection for each cell (delay time)	2.5V ±0.05V (3s)
Over-discharge release for each cell (delay time)	2.8V ±0.05V (3s)
Over-discharge release method	Charging recover
OVER CURRENT CHARGE	
Charge over-current protection (delay time)	1st protection / 160A ±5A (3s) 2nd protection / N/A
Over-current release method (delay time)	Discharge or auto release (60s)
OVER CURRENT DISCHARGE	
Discharge over-current protection (delay time)	400A ±20A (3s)
Over-current release method (delay time)	Charge or auto release (60s)
BATTERY TEMPERATURE CHARGING	
Temperature protection	Over / 60°C ±5°C (2s) Low / 0°C ±2°C (2s)
Release temperature	Over / 45°C ±2°C (2s) Low / 2°C ±2°C (2s)
Release method (delay time)	When temperature is on release
BATTERY TEMPERATURE DISCHARGING	
Over-temperature protection Battery	Over / 65°C ±5°C (2s) Low / -20°C ±2°C (2s)
Release temperature Battery	Over / 55°C ±5°C (2s) Low / -18°C ±2°C (2s)
Over-temperature protection Circuit	Over / 85°C ±5°C (2s)
Release temperature Circuit	Over / 70°C ±5°C (2s)
Release method (delay time)	When temperature is on release
SHORT CIRCUIT PROTECTION	
Function condition	External short circuit
Short circuit delay time	250-500 ms
Release method (delay time)	Remove load for the short circuit protection to release (0s)

