## LiFePO<sub>4</sub> Smart Battery

## 12,8V 9Ah

## 😵 Bluetooth"



## BATTERY FEATURES

- Long lasting superpower, LiFePO4 has up to 10 times more cycles than comparable lead acid batteries
- Lithium Iron Phosphate is the safest lithium technology on the market
- The intelligent Battery Management System (BMS) controls and balance the battery cells, protects the battery against over-charging, over-discharging and has temperature protection
- Double, triple or even quadruple the capacity or voltage through parallel or serial pairing

- Low self-discharge and the ability to charge quickly and efficiently
- Twice the usable capacity (100% DOD) than comparable lead acid batteries
- The battery can be mounted in any position and weighs only 40% of the weight of a comparable lead acid battery
- With our smart Bluetooth® app you can easily view and monitor all relevant data of your LiFePO4 battery

# VE-SPBT-1209

LTIUM



## APPLICATIONS



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DATA CENTER

TRANSPORT

MEDICAL

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UTILITY



SOLAR

WIND

## CERTIFICATES

- CE certificate
- UL 1642 cell certificate
- IEC 62133 cell certificate
- UN 38.3 certified

Download on the App Store

Google play

 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!

## LiFePO<sub>4</sub> Smart Battery

12,8V 9Ah

🚯 Bluetooth"

#### **BATTERY SPECIFICATIONS**

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	9Ah
Nominal Energy	115.2Wh
Internal Resistance	≤20mΩ
Terminal type	F2 faston
Cycle Life (@DOD 100% at IC and ±25°C)	>3000
Cycle Life (@DOD 100% at 0.2C and $\pm 25^{\circ}$ C)	6000
Connection options	4 in series OR 4 in parallel
Communication	Bluetooth®

#### MECHANICAL CHARACTERISTICS

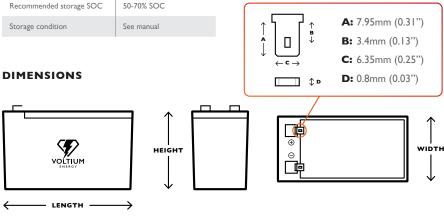
	Length 151±2mm
Dimension	Width 65±2mm
	Height 95±2mm
Weight	Approx. I.15Kg
Housing material	ABS

#### STORAGE SPECIFICATIONS

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

CHARGE SPECIFICATIONS	
Battery operation temperature range @charging	0~45°C
Normal charge voltage	14.6 ±0.1∨
Recommended float charge voltage (for Standby use)	13.8 ±0.1V
Max charge current	9A at ±25°C
Recommended charge current	0.2C
Charge Cut-offVoltage	15V ±0.2V

DISCHARGE SPECIFICATION	vs
Discharging temperature range	-20~60°C
Output Voltage Range	10.0~14.6V
Max discharge current	9A at ±25°C
Recommended discharge current	0.2C
Pulse discharge current	35A withstand 3s
Discharge Cut-off voltage	10.0V
	-20°C / 70% capacity
Discharge temperature	0°C / 90% capacity
characteristics	25°C / 100% capacity
	60°C / 102% capacity



L: 151mm (5.94")

**H:** 95mm (3.74'')

W: 65mm (2.55")

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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.

## **VOLTIUMENERGY.COM**



#### **BMS TECHNICAL SPECIFICATIONS**

OVER CHARGE		
	oach	3.75V ±0.05V (2s)
cell (delay time)	Over-charge protection for each cell (delay time)	
Over-charge release for each cell (delay time)		3.6∀ ±0.05∀ (2s)
Over-charge release method		When voltage is under release voltage
OVER DISCHARGE		
Over-discharge protection each cell (delay time)		
Over-discharge release for cell (delay time)	each	2.8V ±0.05V (2s)
Over-discharge release met	Over-discharge release method	
OVER CURRENT CH	ARGE	
Charge over-current protection (delay time)	lst protection / 20A ±5A (10s) 2nd protection / 25A ±5A (1s)	
Over-current release method (delay time)	Discha	rge or auto release (60s)
OVER CURRENT DIS	CHARG	E
Discharge over-current protection (delay time)	Discharge over-current $42A + 5A (3s)$	
Over-current release method (delay time)	Charge	or auto release (60s)
BATTERY TEMPERAT		
DATTERT TEMPERAT		Dver / $60^{\circ}C \pm 5^{\circ}C (2s)$
Temperature protection		ow / 0°C ±2°C (2s)
Release temperature		Over / 45°C ±2°C (2s) ow / 2°C ±2°C (2s)
Release method (delay time	Release method (delay time)	
BATTERY TEMPERAT	FURE D	ISCHARGING
Over-temperature protecti Battery	on (	
		Over / 65°C ±5°C (2s) ow / -20°C ±2°C (2s)
Release temperature Batter		
Release temperature Batter Over-temperature protecti Circuit	ry C	ow / -20°C ±2°C (2s) Over / 55°C ±5°C (2s)
Over-temperature protecti	ry CL on C	ow / -20°C ±2°C (2s) Over / 55°C ±5°C (2s) ow / -18°C ±2°C (2s)
Over-temperature protecti Circuit	ry CL on C it C	ow / -20°C ±2°C (2s) Over / 55°C ±5°C (2s) ow / -18°C ±2°C (2s) Over / 85°C ±5°C (2s)
Over-temperature protecti Circuit Release temperature Circu	IL ry CL on C it C e) V	ow / -20°C $\pm 2^{\circ}$ C (2s) Dver / 55°C $\pm 5^{\circ}$ C (2s) ow / -18°C $\pm 2^{\circ}$ C (2s) Dver / 85°C $\pm 5^{\circ}$ C (2s) Dver / 70°C $\pm 5^{\circ}$ C (2s) Vhen temperature is on elease
Over-temperature protecti Circuit Release temperature Circu Release method (delay time	L ry C L on C it C a) V r DTECTI	ow / -20°C $\pm 2^{\circ}$ C (2s) Dver / 55°C $\pm 5^{\circ}$ C (2s) ow / -18°C $\pm 2^{\circ}$ C (2s) Dver / 85°C $\pm 5^{\circ}$ C (2s) Dver / 70°C $\pm 5^{\circ}$ C (2s) Vhen temperature is on elease
Over-temperature protecti Circuit Release temperature Circui Release method (delay time	L ry C L on C it C e) V r DTECTI	ow / -20°C ±2°C (2s) Dver / 55°C ±5°C (2s) ow / -18°C ±2°C (2s) Dver / 85°C ±5°C (2s) Dver / 70°C ±5°C (2s) Dver / 70°C ±5°C (2s) When temperature is on elease



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