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

12,8V 125Ah

### 🚯 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
- The Battery has a pre-charge function which means the battery can handle high incoming currents from inverters. Thanks to this feature, the BMS and cells will not be damaged.

## 

## VE-SPBT-12125

OLTIUM

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### APPLICATIONS







TRANSPORT





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UTILITY

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SOLAR



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!



# LiFePO4 Smart Battery

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### **BATTERY SPECIFICATIONS**

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	I25Ah
Nominal Energy	1600Wh
Internal Resistance	≤20mΩ
Terminal type	тп
Cycle Life (@DOD 100% at 1C and $\pm 25^{\circ}$ 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

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

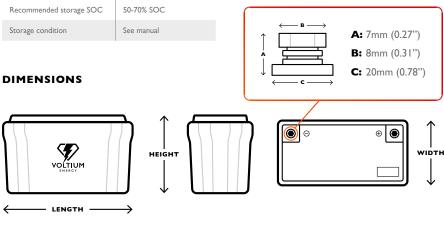
### STORAGE SPECIFICATIONS

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

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

CHARGE SPECIFICATIONS

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



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 unde release voltage
OVER DISCHARGE		
Over-discharge protection for each cell (delay time)		2.5V ±0.05V (3s)
Over-discharge release for cell (delay time)	Over-discharge release for each cell (delay time)	
Over-discharge release met	thod	Charging recover
OVER CURRENT CH	ARGE	
Charge over-current protection (delay time)	lst protection / 160A ±5A (3s) 2nd protection / N/A	
Over-current release method (delay time)	Discharge or auto release (60s)	
OVER CURRENT DIS	CHARG	Ε
Discharge over-current protection (delay time)	400A ±20A (3s)	
Over-current release method (delay time)	Charge or auto release (60s)	
BATTERY TEMPERAT		HARGING
Temperature protection	(	Dver / 60°C ±5°C (2s) .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		Dver / 65°C ±5°C (2s) .ow / -20°C ±2°C (2s)
Release temperature Batter		Dver / 55°C ±5°C (2s) .ow / -18°C ±2°C (2s)
Over-temperature protecti Circuit	on (	Dver / 85°C ±5°C (2s)
Release temperature Circu	it (	Dver / 70°C ±5°C (2s)
Kelease method (delay time)		When temperature is or elease
SHORT CIRCUIT PRO	DTECT	0N
Function condition		external short circuit
Short circuit delay time		50-500 ms
Release mehod (delay time)	) s	Remove load for the hort circuit protection o release (0s)



VE-SPBT-12125