LiFePO₄ Smart Battery

12,8V 100Ah

8 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-12100

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APPLICATIONS



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TRANSPORT



MEDICAL

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UTILITY

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SOLAR

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!



LiFePO₄ Smart Battery

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BATTERY SPECIFICATIONS

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	100Ah
Nominal Energy	I 280Wh
Internal Resistance	≤ 30 mΩ
Terminal type	ТП
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 307±2mm
Dimension	Width 168±2mm
	Height 211±2mm
Weight	Approx. 12.5Kg
Housing material	ABS

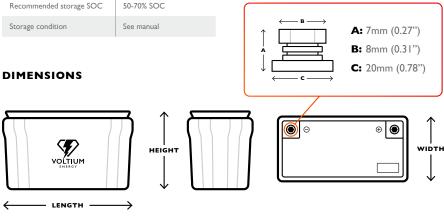
STORAGE SPECIFICATIONS

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 ±0.1∨
Recommended float charge voltage (for Standby use)	13.8 ±0.1V
Max charge current	100A at ±25°C
Recommended charge current	0.2C
Charge Cut-off Voltage	15V ±0.2V

CHARGE SPECIFICATIONS

DISCHARGE SPECIFICATION	15
Discharging temperature range	-20~60°C
Output Voltage Range	10.0~14.6V
Max discharge current	100A at ±25°C
Recommended discharge current	0.2C
Pulse discharge current	350A withstand 3s
Discharge Cut-off voltage	10.0V
Discharge temperature	-20°C / 70% capacity
	0°C / 90% capacity
characteristics	25°C / 100% capacity
	60°C / 102% capacity



L: 307mm (12.08")

H: 211mm (8.31'')

W: 168mm (6.61")

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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

	u oo sh	
Over-charge protection fo cell (delay time)	or each	3.75V ±0.05V (2s)
Over-charge release for each cell (delay time)		3.6V ±0.05V (2s)
Over-charge release method		When voltage is under release voltage
OVER DISCHARGE		
Over-discharge protection each cell (delay time)	n for	2.5V ±0.05V (2s)
Over-discharge release for cell (delay time)	Over-discharge release for each ell (delay time)	
Over-discharge release me	Over-discharge release method	
OVER CURRENT CH	ARGE	
Charge over-current Ist protection / I10A ±5A (10s) protection (delay time) 2nd protection / I50A ±5A (3s)		
Over-current release method (delay time) Discharge or auto release (60s)		
OVER CURRENT DIS	CHARG	iΕ
Discharge over-current protection (delay time) 360A ±60A (3s)		
Over-current release method (delay time)	Charge	or auto release (60s)
BATTERY TEMPERA		
Temperature protection		Over / 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 tim		Vhen temperature is on elease
BATTERY TEMPERA	TURE D	ISCHARGING
Over-temperature protect Battery		Dver / 65°C ±5°C (2s) ow / -20°C ±2°C (2s)
Release temperature Batte	ery C	Over / 55°C ±5°C (2s) ow / −18°C ±2°C (2s)
Over-temperature protect	tion C	Dver / 85°C ±5°C (2s)
Circuit		
Release temperature Circ	uit C	Over / 70°C ±5°C (2s)
	ne) V	Over / 70°C ±5°C (2s) When temperature is on elease
Release temperature Circ Release method (delay tim	ne) V r	Vhen temperature is on elease
Release temperature Circ	ne) V r	Vhen temperature is on elease
Release temperature Circ Release method (delay tim SHORT CIRCUIT PR	ne) V r	Vhen temperature is on elease ON



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