LiFePO₄ Smart Battery

12,8V 12Ah

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

DLTIUM

VE-SPBT-1212

VOLTIUMENERGY.COM

APPLICATIONS







DATA CENTER





SOLAR



MEDICAL



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 12,8V 12Ah

🚯 Bluetooth"

BATTERY SPECIFICATIONS

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	I2Ah
Nominal Energy	153.6Wh
Internal Resistance	≤ 60 mΩ
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®

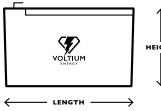
MECHANICAL CHARACTERISTICS

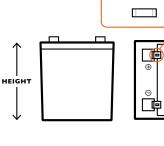
	Length 151±2mm
Dimension	Width 98.5±2mm
	Height 95±2mm
Weight	Approx. I.6Kg
Housing material	ABS

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: 151mm (5.94")

H: 95mm (3.74'')

W: 98,5mm (3.87'')

в ↓

∏ ≎⊳

← c →

CHARGE SPECIFICATIONS Battery operation temperature

range @charging

Normal charge voltage Recommended float charge

voltage (for Standby use)

Recommended charge current

DISCHARGE SPECIFICATIONS Discharging temperature range

Max charge current

Charge Cut-off Voltage

Output Voltage Range

Max discharge current

Pulse discharge current Discharge Cut-off voltage

Discharge temperature characteristics

Recommended discharge current

0~45°C

14.6 ±0.1V

13.8 ±0.1V

15V ±0.2V

-20~60°C

10.0~14.6V

I2A at ±25°C

55A withstand 3s

-20°C / 70% capacity 0°C / 90% capacity

25°C / 100% capacity

60°C / 102% capacity

A: 7.95mm (0.31'')

B: 3.4mm (0.13")

C: 6.35mm (0.25")

D: 0.8mm (0.03")

WIDTH

0.2C

10.0V

0.2C

I2A at ±25°C

©2021.Voltium Energy. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.E

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

TIUM

VE-SPBT-1212

OVER CHARGE		
Over-charge protection for cell (delay time)	each	3.75V ±0.05V (2s)
Over-charge release for eac (delay time)	ch cell	3.6V ±0.05V (2s)
Over-charge release metho	-charge release method	
OVER DISCHARGE		
Over-discharge protection each cell (delay time)	for	2.5V ±0.05V (2s)
Over-discharge release for cell (delay time)	each	2.8V ±0.05V (2s)
Over-discharge release met	thod	Charging recover
OVER CURRENT CH	ARGE	
Charge over-current protection (delay time)	lst protection / 20A ±5A (10s) 2nd protection / 25A ±5A (3s)	
Over-current release method (delay time)	Discharge or auto release (60s)	
OVER CURRENT DIS	CHARG	E
Discharge over-current protection (delay time)	60A ±5A (3s)	
Over-current release method (delay time)	Charge or auto release (60s)	
BATTERY TEMPERAT	TURE C	HARGING
Temperature protection		Over / 60°C ±5°C (2s) ow / 0°C ±2°C (2s)
Release temperature		Dver / 45°C ±2°C (2s) ow / 2°C ±2°C (2s)
Release method (delay time		Vhen temperature is or elease
BATTERY TEMPERAT	TURE D	ISCHARGING
Over-temperature protection Battery		Dver / 65°C ±5°C (2s) ow / -20°C ±2°C (2s)
Release temperature Batter		Over / 55°C ±5°C (2s) ow / -18°C ±2°C (2s)
Over-temperature protection Circuit	on C	Over / 85°C ±5°C (2s)
Release temperature Circui	it C	Over / 70°C ±5°C (2s)
		Vhen temperature is or elease
SHORT CIRCUIT PRO	DTECTI	0N
Function condition		xternal short circuit
Short circuit delay time	2	50-500 ms
Short circuit delay time	2	00 000 1115