LiFePO4 Smart Battery

12,8V 460Ah

Bluetooth

VOLTIUM ENERGY

VE-SPBT-12460

VOLTIUMENERGY.COM

APPLICATIONS

- ENERGY STORAGE
- RECREATION & SPORT
- FISHING
- MARINE
- TRANSPORT
- MOBILITY
- EVENTS
- MEDICAL
- INDUSTRIAL
- DATA CENTER

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.

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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ANDROID APP ON Google play

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BATTERY SPECIFICATIONS

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	460Ah
Nominal Energy	5888Wh
Internal Resistance	≤10mΩ
Terminal type	T11 (M8)
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®

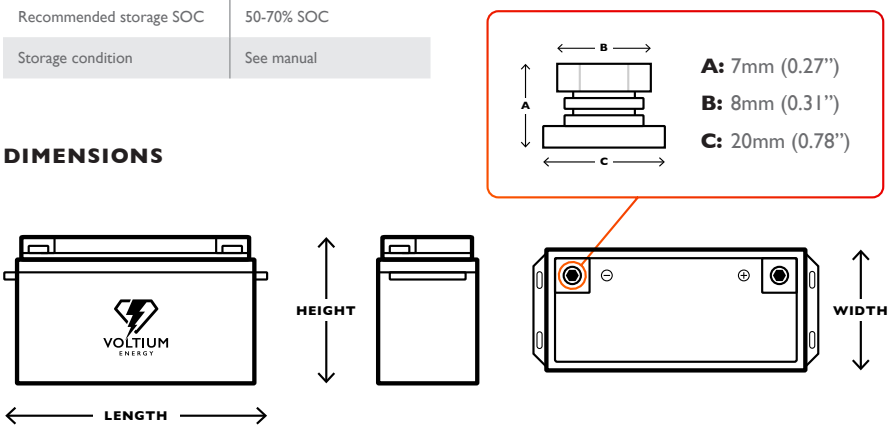
MECHANICAL CHARACTERISTICS	
Dimension	Length 520±3mm
	Width 269±3mm
	Height 222±3mm
Weight	Approx. 42Kg
Housing material	ABS

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 ±0.1V
Recommended float charge voltage (for Standby use)	13.8 ±0.1V
Max charge current	300A 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	300A at ±25°C
Recommended discharge current	0.2C
Pulse discharge current	1000A 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

DIMENSIONS



L: 520mm (20.47") **H:** 269mm (10.59") **W:** 222mm (8.74")

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 mehod (delay time)	Remove load for the short circuit protection to release (0s)

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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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