

LiFePO<sub>4</sub> Smart Battery

**12,8V 100Ah**

CONNECTSERIES

Bluetooth™ HEATING MODULE



### BATTERY FEATURES

- ✓ Long lasting Super Power, LiFePO<sub>4</sub> delivers up to 10 times more cycles than comparable lead acid batteries
- ✓ High energy density, delivers maximum usable power in a compact and lightweight design for versatile applications
- ✓ Flexible system setup, supports up to 16 batteries in parallel (16P) or 4 in series and 4 parallel (4S4P)
- ✓ Smart BMS with Bluetooth for real-time monitoring and seamless communication via CAN and RS485. Fully compatible with Victron Energy systems for easy integration
- ✓ IP67 waterproof design, protected against dust and water for reliable use in demanding environments
- ✓ Integrated heating module, automatically activates during charging for reliable performance in low temperature conditions
- ✓ Advanced safety system, protects against overcharge, deep discharge, short circuit and temperature fluctuations
- ✓ Low self discharge and efficient charging, ensures reliable power whenever you need it



Bluetooth™

**DOWNLOAD THE APP OF VOLTUM ENERGY**

With our Bluetooth® app, you can view and monitor the current status of your LiFePO<sub>4</sub> battery!



**VOLTUM ENERGY**

VE-SPBTC-PR-12100

VOLTIUMENERGY.COM

### APPLICATIONS



ENERGY STORAGE



RECREATION & SPORT



FISHING



MARINE



TRANSPORT



MOBILITY



EVENTS



MEDICAL



INDUSTRIAL



DATA CENTER

### CERTIFICATES

- ✓ CE certificate
- ✓ UL 1642 cell certificate
- ✓ IEC 62133 cell certificate
- ✓ UN 38.3 certified
- ✓ ISO9001:2015 - Quality management systems

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

## 12,8V 100Ah

CONNECTSERIES



VE-SPBTC-PR-12100

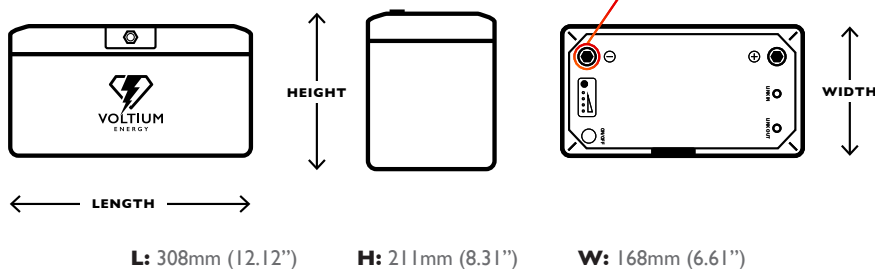
### BATTERY SPECIFICATIONS

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	100Ah
Nominal Energy	1280Wh
Internal Resistance	≤30mΩ
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 and parallel (4S4P) OR 16 in parallel (16P)
Communication	Bluetooth®, RS485, CANBUS

MECHANICAL CHARACTERISTICS	
Dimension	Length 308±2mm
	Width 168±2mm
	Height 211±2mm
Weight	Approx. 13.5Kg
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

### DIMENSIONS



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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.

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	100A 30min at 25±5°C
Recommended charge current	0.2C
Charge Cut-off Voltage	15.6V

DISCHARGE SPECIFICATIONS	
Discharging temperature range	-20~60°C
Output Voltage Range	10.0~14.6V
Max discharge current	150A at ±25°C
Recommended discharge current	0.2C
Pulse discharge current	500A withstand 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

### BMS TECHNICAL SPECIFICATIONS

OVER CHARGE	
Over-charge protection for each cell (delay time)	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 for each cell (delay time)	2.5V ±0.05V (2s)
Over-discharge release for each cell (delay time)	2.8V ±0.05V (2s)
Over-discharge release method	Charging recover

OVER CURRENT CHARGE	
Charge over-current protection (delay time)	1st protection / 110A ±5A (10s) 2nd protection / 150A ±5A (3s)
Over-current release method (delay time)	Discharge or auto release (60s)

OVER CURRENT DISCHARGE	
Discharge over-current protection (delay time)	1st protection / 150A ±5A (3min) 3rd protection / 300A ±10A (3-4s)
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 method (delay time)	Remove load for the short circuit protection to release (30s)

