LiFePO₄ Smart Battery

12,8V 20Ah

₿ Bluetooth*



VOLTIUMENERGY.COM

APPLICATIONS





ENERGY STORAGE

RECREATION & SPORT









TRANSPORT

MOBILITY





MEDICAL





INDUSTRIAL

DATA CENTER

BATTERY FEATURES

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I 2.8V 20Ah

- 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

CERTIFICATES



- 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 20Ah





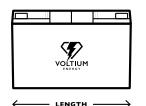
BATTERY SPECIFICATIONS

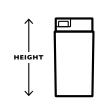
GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	20Ah
Nominal Energy	256Wh
Internal Resistance	≤60mΩ
Terminal type	M6
Cycle Life (@DOD 100% at IC and ±25°C)	>3000
Cycle Life (@DOD 100% at 0.2C and ±25°C)	6000
Connection options	4 in series OR 4 in parallel
Communication	Bluetooth®

MECHANICAL CHARACTERISTICS	
	Length 181±3mm
Dimension	Width 76±3mm
	Height 166±3mm
Weight	Approx. 3.0Kg
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

DIMENSIONS

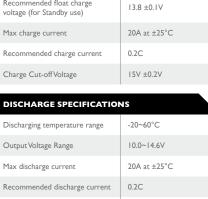




L: 181mm (7.12") **H:** 166mm (6.53")

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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.



0~45°C

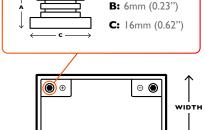
14.6 ±0.1V

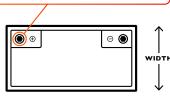
CHARGE SPECIFICATIONS Battery operation temperature

range @charging

Normal charge voltage

Output Voltage Range Recommended discharge current Pulse discharge current 68A withstand 3s Discharge Cut-off voltage -20°C / 70% capacity 0°C / 90% capacity Discharge temperature characteristics 25°C / 100% capacity 60°C / 102% capacity





A: 6mm (0.23")

W: 76mm (2.99")



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 / 25A ±5A (10s) 2nd protection / 30A ±5A (3s)
Over-current release method (delay time)	Discharge or auto release (60s)

OVER CURRENT DISCHARGE	
Discharge over-current protection (delay time)	73A ±5A (3s)
Over-current release method (delay time)	Charge or auto release (60s)

BATTERY TEMPERATUR	E 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
	- Dissuadellis

BATTERY TEMPERATURI	EDISCHARGING
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 (30s)