

12.8V 100Ah

Lithium Iron Phosphate Battery

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# 12.8V 100Ah LiFePO<sub>4</sub> Battery

## **FEATURES & BENEFITS**



#### **High cycle life**

LiFePO4

Features

High cycle lif

>3000 cycles @80% DoD for effectively lower total cost of ownership.

Built-in battery management system(BMS) 🛛 UN38.3 ( Є 🛆 🎘

#### Built in circuit protection

Battery Management Systems (BMS) are incorporated against abuse.

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#### **Light weight**

Lithium batteries provide more Wh/Kg while also beingup to 1/3 the weight of its SLA equivalent



#### **Extreme heat tolerance**

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60  $^\circ\!C.$ 

#### Longer service life

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC)of smart models.



#### **Better storage**

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



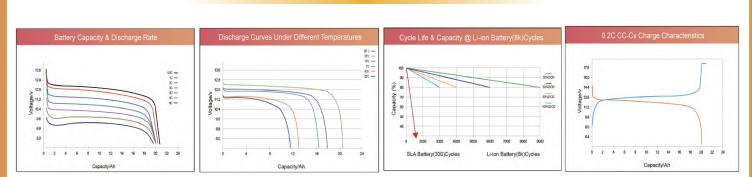
#### **Quickly recharge**

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



## Leading technology

We are a lithium battery brand originating from Germany and holding German patent certification



## **PERFORMANCE CHARACTERISTICS**

# <u>CST ENERGY</u>

# MODEL:CST-LT-12.8-100

#### **ELECTRICAL PERFORMANCE**

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Resistance	≤12.2mΩ@50%SOC
Self Discharge	<3% /Month
Life Cycle	>3000Cycles

## **DISCHARGE PERFORMANCE**

Continuous Discharge Current	50A
Maximum continuous Discharge Current	100A
Discharge Cut-Off Current	125A(7S)
Recommended Low Voltage Disconnect	10V
Discharge Cut-Off Voltage	>8.4V
Reconnect Voltage	9.2V
Short Circuit Protection	Yes

## **CHARGE PERFORMANCE**

Recommended Charge Current	50A
Maximum Charge Current	100A
Recommended Charge Voltage	14.6V
Charge Cut-Off Voltage	>14.8V
Reconnect Voltage	>14.4V
Balancing Voltage	<14V

## **MECHANICAL PERFORMANCE**

Dimension (L x W x H)	260X168X209mm
Net. Weight	9.47kg
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP65

## **TEMPERATURE PERFORMANCE**

Discharge Temperature	-20~55°C
Charge Temperature	0~55℃
Storage Temperature	-20~25°C
High Temperature Cut-Off	75±5℃
Reconnect Temperature	53±10°C

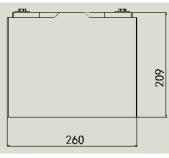
## **COMPLIANCE**

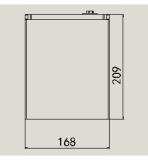
Certifications
Shipping Classification

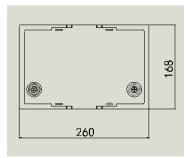
UL CE UN38.3 UN 3480,MSDS



## **OUTLINE DIMENSION**







L:260mm

W:168mm