



51.2V 100AH 3U LiFePO₄ Battery

FEATURES & BENEFITS



High cycle life

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



Built in circuit protection

Battery Management Systems (BMS) are incorporated against abuse.



Light weight

Lithium batteries provide more Wh/Kg while also being up 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°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

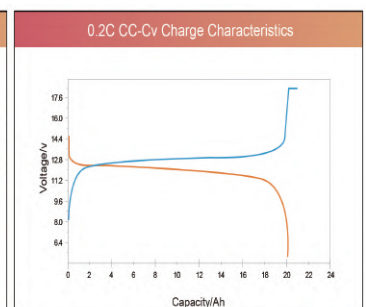
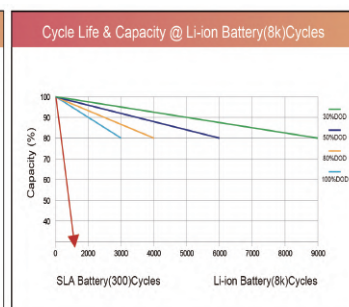
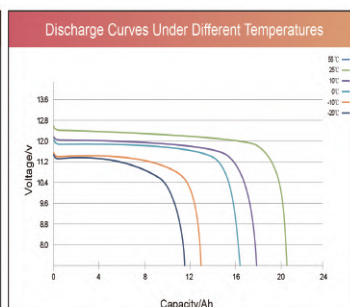
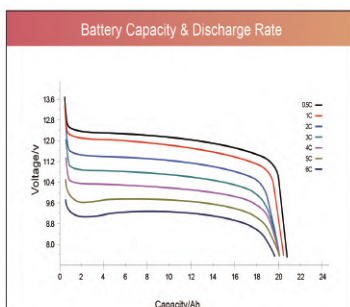
Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



Leading technology

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

PERFORMANCE CHARACTERISTICS





Performance

Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Battery Energy	5120 Wh
Voltage At End Of Discharge	40 V
Charge Voltage	57.6 V-58.4 V
Standard Charge Current	50 A
Maximum Continuous Charge Current	100 A
Standard Discharge Current	50 A
Maximum Continuous Discharge Current	100 A
Internal Impedance	≤ 30 mΩ
Cells	Lithium Iron Phosphate

Communication

Communication	RS485 / CAN / RS232
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General Specification

Dimension (W x D x H mm)	483 x 551.5 x 133 mm
Net. Weight(kg)	43 kg
Charge Over-Current Protection	120±5A
Working Temperature	- 20 °C ~ 55 °C
Operating / Storage Humidity	60±25%R.H.
Short Circuit Protection	Yes
Charge Mode	CC / CV
Cell Technology	LiFePO ₄
Cycle Life	>3000 cycles @ 80% DOD / 25 °C / 0.5 C
Scalability	1P16S

Standard Compliance (More Available Upon Request)

Certificates	UL, IEC, UN38.3, MSDS
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Ordering and Deliverable Part

Product Ordering Part	CST-DZ 51.2V100AH3U (Communication Cable)
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