



CST ENERGY



51.2V 300AH LiFePO₄ Battery

FEATURES & BENEFITS



High cycle life

>6000 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.

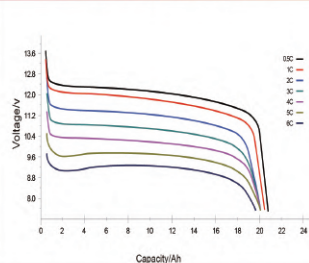


Leading technology

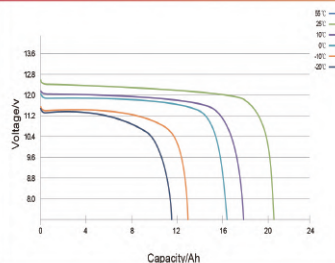
We are a lithium battery brand originating from Germany and holding German patent certification

PERFORMANCE CHARACTERISTICS

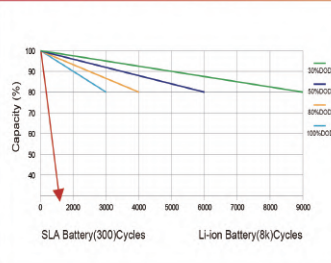
Battery Capacity & Discharge Rate



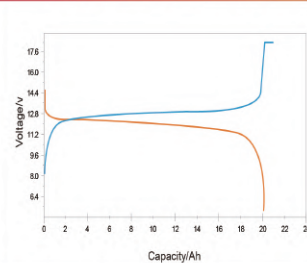
Discharge Curves Under Different Temperatures



Cycle Life & Capacity @ Li-ion Battery(8k)Cycles



0.2C CC-Cv Charge Characteristics



Performance

Nominal Voltage	51.2 Vdc
Nominal Capacity	300Ah
Battery Energy	15.36 KW
Voltage At End Of Discharge	43.2 V
Charge Voltage	57.6 V-58.4 V
Standard Charge Current	100 A
Maximum Continuous Charge Current	200 A
Standard Discharge Current	100 A
Maximum Continuous Discharge Current	200 A
Internal Impedance	$\leq 30 \text{ m}\Omega$
Charge Over-current Protection	210 \pm 10 A

Communication

Display	Color Touchscreen
Communication	CE,UL, UN38.3, MSDS.

General Specification

Dimension (W x D x H mm)	600 x 262 x 872 mm
Net. Weight(kg)	135 kg
Installation	Floor Stand
Working Temperature	-20 °C ~ 55 °C
Operating / Storage Humidity	< 60% RH
Max Operating Altitude	< 2000 m
IP Rating	IP20
Cell Technology	LiFePO ₄
Cycle Life	6000 Cycles @80% DOD / 25 °C / 0.5 C, 60% EOL
Scalability	Max 15 Batteries In Parallel

Standard Compliance (More Available Upon Request)

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

Product Ordering Part	CST-LR-51.2-280 (Power Cable/Data Cable)
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