

CFE-Replacement LFP S Battery



Advantages

1. Support 4 batteries connected in parallel.
2. Support external connections in series with voltage up to 51.2V.
3. Active balancing function between batteries, true parallel with RS485 communication.
4. Quick connection and insulation protection.
5. High-resolution, low-power OLED shows battery power & voltage, soft switch design.
6. Stainless steel handles, high durability, easy to carry, and guarantee 3000 fatigue tests.
7. Rugged stainless steel body with wonderful looking and durable.

Self-developed BMS

Eight-fold safety protection, safe and reliable



Over Charge
Protection



Over Discharge
Protection



Short Circuit
protection



Over Load
protection



Overheating
protection



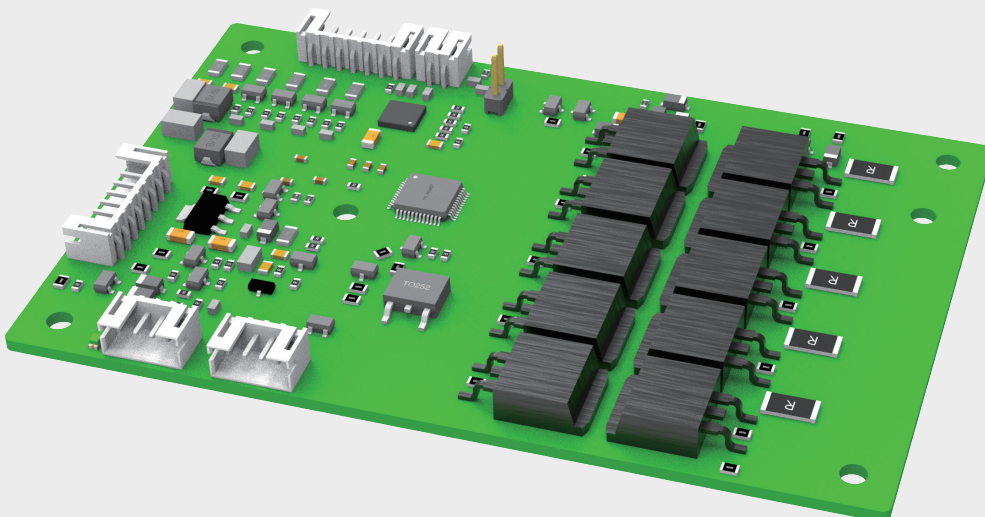
Cryogenic
protection



Over Current
Protection



Over Voltage
protection



CFE-640S batteries are based on Lithium Iron Phosphate technology (LiFePO₄), the safest Lithium technology available today. On top of that our bespoke casing and self-developed BMS System further increase safety and durability.

Compared to conventional lead-acid batteries, the lithium battery offers an enormous weight and space saving. It is very efficient, has extremely high performances and is maintenance free.

- ⦿ Low weight
- ⦿ Low Maintenance
- ⦿ Low self-discharge
- ⦿ High capacity
- ⦿ Safest Lithium Technology
- ⦿ High cycle count

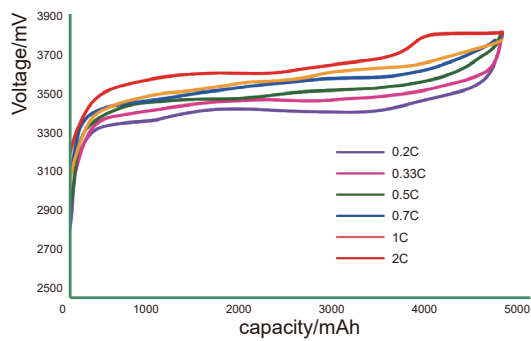
Specifications

Name	CFE-640S
Model	12.8V/50Ah
Nominal Voltage	12.8V
Nominal Capacity @1C	50Ah
Charge Voltage	14.6V
Recommended Charge Current	25A
Max Continuous Charge Current	50A
Discharge Voltage Minimum	10V
Discharge Current Max Continuous	50A
Pulse Current 5 Sec	75A
Weight	7kg±0.5kg
Dimensions L*W*H (mm)	180*140*250
Calendar Life & Warranty [1]	3500 cycles or 5 years , whichever comes first 1500 cycles or 2 years , whichever comes first

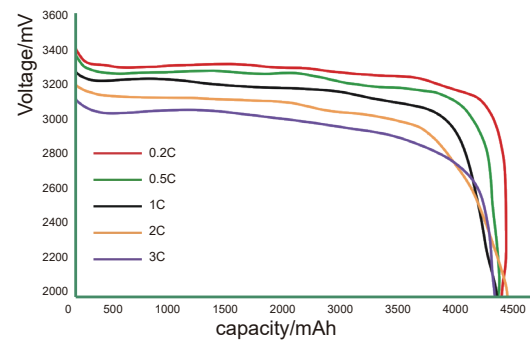
[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

Environmental Requirements and Certifications

Operating Temperature	Charging:0°C to 45°C
	Discharging :-20°C to 60°C
Storage Temperature	-20~60°C
Relative Humidity (R H)	5% ~ 95% (No Condensed Water)
Safety Certificate	IEC 62040
Transportation Certificate	UN3480



Charging curve



Discharge curve

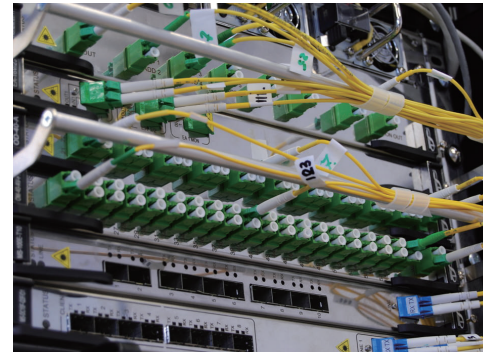
Application



Home lighting



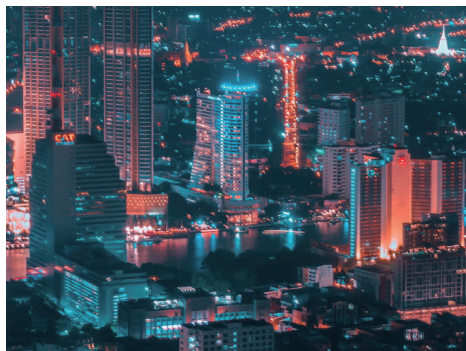
UPS



Telecom power



Photovoltaic integration



Power Systems



Emergency lighting



Power supply



Outdoor power bank



Instrument power