

**EFB-48/7.68**

**LiFePO<sub>4</sub> Batteries**



Electrical characteristics	Nominal Voltage	48V
	Nominal Capacity	150Ah
	Energy	7680Wh
	Internal Resistance	≤50mΩ
	Life cycle	>5000ciclos @0,2C 80%DoD
	Calendar Life	>10 years
	Months Self Discharge	<5% in 90-day storage at 25°C
	Efficiency of Charge	97% @0,5C
	Efficiency of Discharge	98% @0,5C
Standard Charge	Charge Voltage	57 ± 0,1V
	Method of Charge	0,2C to 54,0V; then charge current to 0,02C (CC/CV)
	Standard Charge Current	75A @≥10°C ; 20A@<10°C
	Max. Constant current	100A (if over, limited 20A)
	Charge Cut-off	57,6V
Standard Discharge	Continuous Current	100A
	Max. Discharge Cut-off Current	100A Constant, Peak 110A for 1000ms
	Discharge Cut-Off Voltage	45,6V
Environmental	Charge Temperature	0°C to 55°C @60 ± 25%HR
	Discharge Temperature	-20°C to 60°C @60 ± 25%HR
	Storage Temperature	0°C to 45°C @60 ± 25%HR
	Water Dust Resistance	IP21
Communication	Modbus (RS485)	Yes
	RS232	Yes
	CAN	Yes
	SNMP	Optional
Mechanics	Cell / Method	150Ah/16S1P
	Cell type	Prismatic
	Terminal type	HV Surlock Plus
	Dimensions (mm)	442*580*200 (4.5U)
	Weight (kg)	62Kg
	Gravimetric Specific Energy	124Wh/Kg
Safety standard	UN38,3 IEC 60950 / IEC 62619 RoHS Directive (2011/65/CE) Standard UL 1642	
Warranty	2 years	
Digital Output	Alarms	
Protection	Thermomagnetic	

\*The data in this document may be modified without prior notice.

## EFB - 48/7.68

### 7680Wh



Technology  
LiFePO<sub>4</sub>



Extendable  
system



Fire  
Extinguisher



Anti-theft  
compatible



Warranty  
2 years

Designed for superior performance in critical applications, this 48V, 7680Wh rack-mountable lithium battery combines structural robustness, advanced safety, and cutting-edge technology. With a 150Ah capacity and 4.5U format, it integrates seamlessly into low-voltage energy storage systems, providing an efficient and fast-response solution.

Thanks to LiFePO<sub>4</sub> technology, it enables full charge and discharge cycles in just one hour, offering a fast and safe response. Its lifespan exceeds 5,000 cycles at 80% depth of discharge (DoD), even under demanding conditions. Equipped with 16 cells balanced by an intelligent BMS, it includes protections against overcharge, overdischarge, overcurrent, and temperature. The system features an internal fire extinguisher and remote reset, enhancing safety and enabling remote management.

It includes HV Surlok Plus connectors and is compatible with the Everfeed monitoring system, expanding its versatility. Ideal for solar and wind energy installations, telecommunications, UPS systems, and backup solutions.

## Applications



FLV



Telecommunications



Solar Energy System

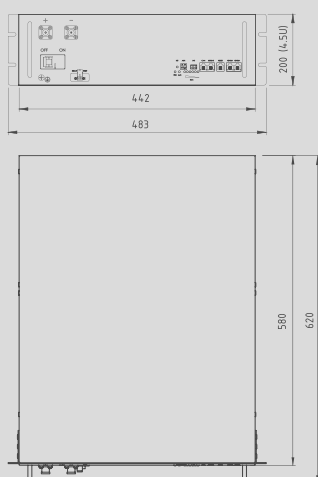


UPS

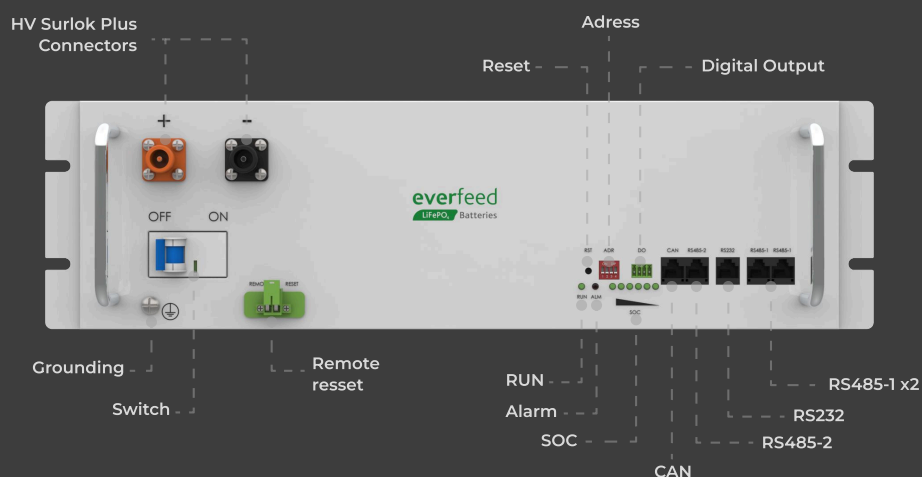


Smart Home

## Dimensions



## Specifications

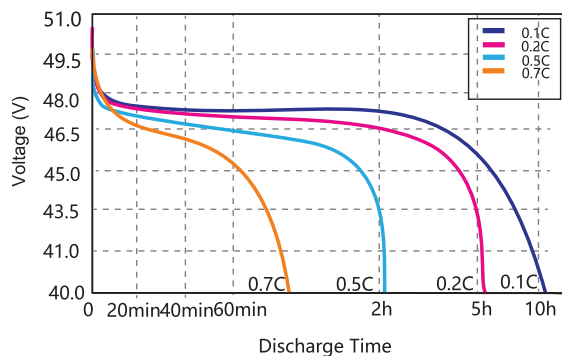


- **Longer Cycle Life.** Offers up to 20 times longer cycle life and 5 times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight.** About 40% of the weight of a comparable lead acid battery. A “driop in” replacement for lead acid batteries.
- **Increased Flexibility.** Modular design enables deployment up to 16 batteries in parallel

- **Superior Safety.** Lithium Iron phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation
- **Higher Power.** Delivers twice power of lead-acid battery, even high discharge rate, while maintaining high energy capacity
- **Wider temperature Range.** Operates reliably within a broad temperature range of -20°C to 60°C.

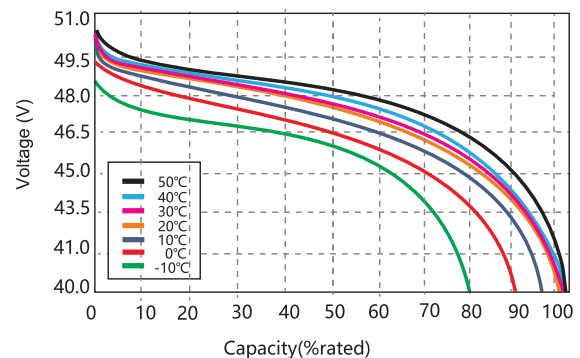
### Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



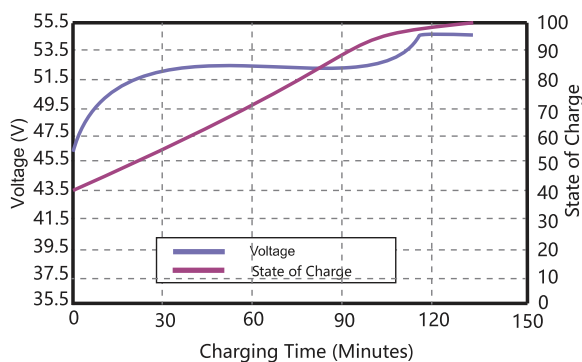
### Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



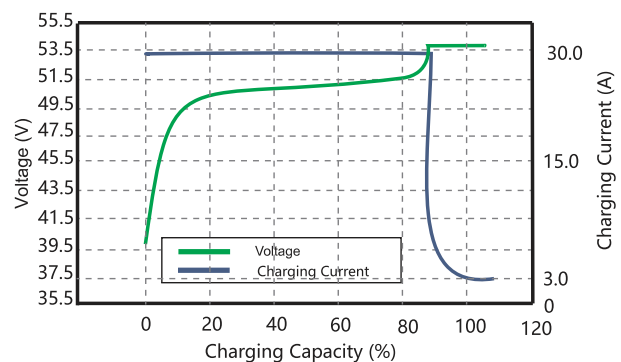
### State of Charge Curve

State of Charge Curve @0.5C 25°C



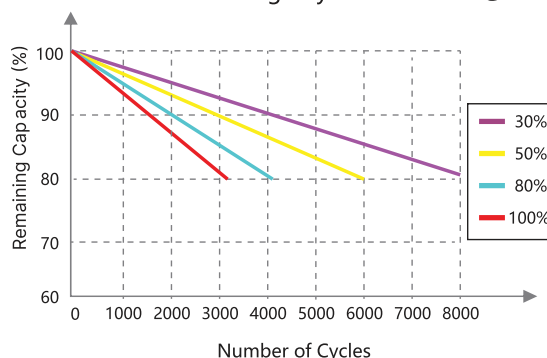
### Charging Characteristics Curve

Charging Characteristics @0.2C 25°C



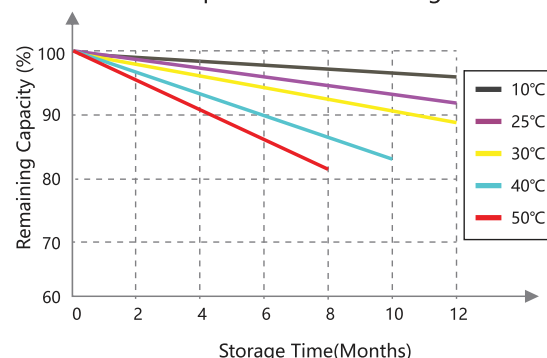
### Cycle Life Curve

Different DOD Discharge Cycle Life Curve @0.5C



### Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve





# everfeed

Make energy simple



@everfeed



+1 (305) 333-0566



[www.ever-feed.com](http://www.ever-feed.com)



[hello@ever-feed.com](mailto:hello@ever-feed.com)