

# EFB-48150

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



## EFB - 48150

### 7200Wh



Technology  
LiFePO<sub>4</sub>



Extendable  
system



HMI  
supported



Anti-theft  
compatible



Warranty  
2 years

Designed to deliver superior performance in critical applications, this 48V 7200Wh rack-mountable lithium battery combines robustness, safety, and cutting-edge technology. With a 150Ah capacity and 4.5U form factor, it integrates seamlessly into low-voltage energy storage systems, providing a swift and responsive solution.

Thanks to LiFePO<sub>4</sub> technology, it supports full charge and discharge cycles in just one hour, offering a fast and safe response. Its lifespan exceeds 5000 cycles at 80% depth of discharge (DoD), even under demanding conditions.

It features an intelligent BMS (Battery Management System) that protects against overcharge, overdischarge, overcurrent, and temperature, while balancing the cells for optimal performance.

Equipped with HV Surlok Plus connectors and compatible with the Everfeed monitoring system.

Ideal for applications in solar and wind energy, telecommunications, UPS, and backup power systems.

## Applications



FLV



Telecommunications



Solar Energy System

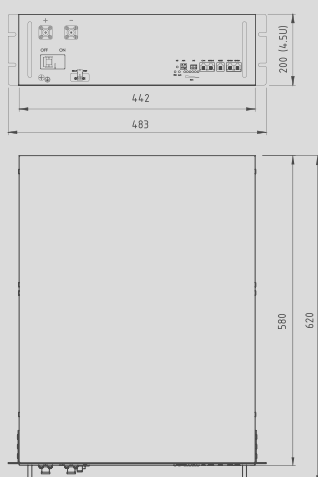


UPS

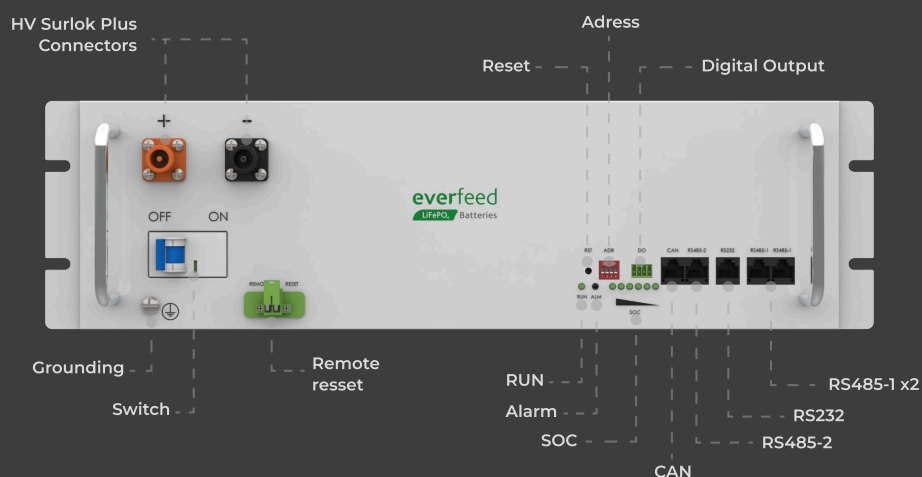


Smart Home

## Dimensions



## Specifications



Electrical characteristics	Nominal Voltage	48V
	Nominal Capacity	150Ah
	Energy	7200Wh
	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	53,5 ± 0,1V
	Method of Charge	0,2C to 54,0V; then charge current to 0,02C (CC/CV)
	Standard Charge Current	50A @≥10°C ; 20A@<10°C
	Max. Constant current	100A (if over, limited 20A)
	Charge Cut-off	54,5V
Standard Discharge	Continuous Current	100A
	Max. Discharge Cut-off Voltage	100A Constant, Peak 150A for 10secs
	Discharge Cut-Off Voltage	41V
Environmental	Charge Temperature	0°C to 50°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	75 Ah-15S2P or 150Ah-15S1P
	Pack Case	Prismatic
	Terminal type	HV Surlock Plus
	Dimensions (mm)	442*580*200 (4.5U)
	Weight (kg)	60Kg
	Gravimetric Specific Energy	120Wh/kg
Safety standard	UN38,3	
	IEC 60950 / IEC 62619	
	RoHS Directive (2011/65/CE)	
	Standard UL 1642	
Warranty	2 years	
Digital Output	Factory programmable auxiliary contact configuration	
Protection	Thermomagnetic	

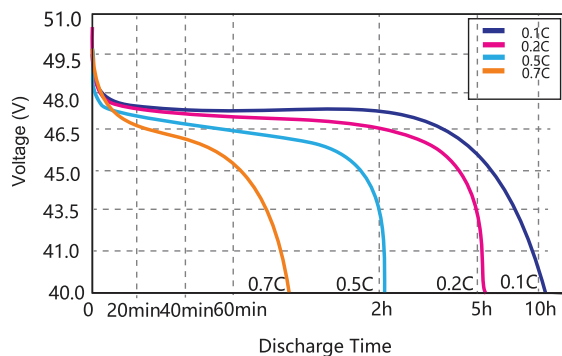
\*The data in this document may be modified without prior notice.

- **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.

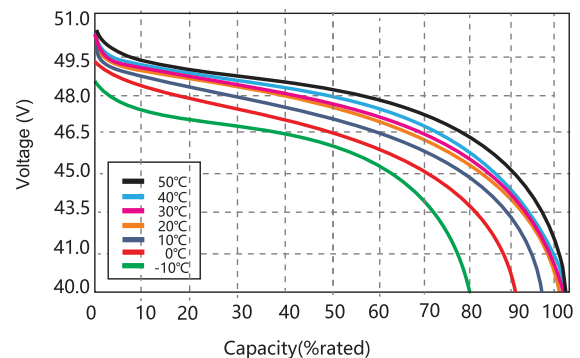
### Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



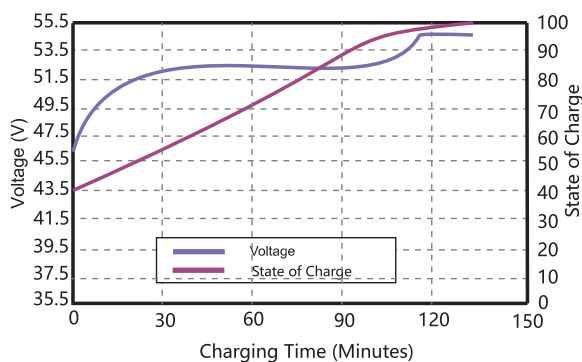
### Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



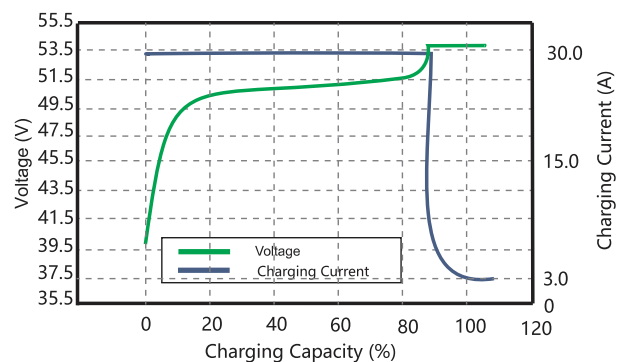
### State of Charge Curve

State of Charge Curve @0.5C 25°C



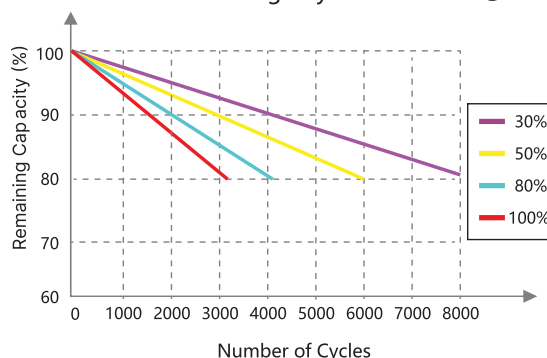
### Charging Characteristics Curve

Charging Characteristics @0.2C 25°C



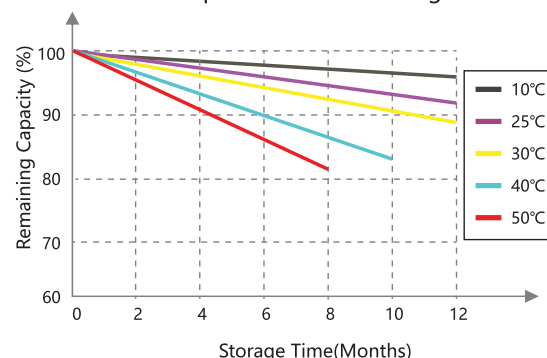
### Cycle Life Curve

Different DOD Discharge Cycle Life Curve @0.5C



### Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



# everfeed

Make energy simple



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