

EP-4850 (48V50Ah)

lithium iron phosphate (LiFePO4) battery

Your best power choice for Solar energy storage system!

EverExceed LiFePO4 solutions are more advanced, highly efficient and has many advantages over the traditional Lead Acid technology.

Here introducing popular EP-4850 battery of EverExceed which is high demanding among Solar industry users for its most advanced features:

Specifications

Nominal Characteristics	
Battery Model	EP-4850
Nominal Voltage	48 V
Nominal Capacity	50 Ah
Nominal Energy	2400 Wh
Electrical Characteristics	
Recommended Charging Voltage	54-54.7 V
Floating Charging Voltage	51.5-52 V
Recommended Charging Current	25 A
Maximum Discharging Current	50 A
Discharging Cut-off Voltage	40.5 V
Working Voltage Range	40.5-54.7 V
Operating Conditions	
Cycle Life	≥6000 Cycles@80% DOD@25°C
Roundtrip Efficiency	≥98%
Operating Charge Temperature	0°C to +50°C
Operating Discharge Temperature	-20°C to +60°C
Storage Temperature	-20°C to +60°C
Mechanical Characteristics	
Length x Width x Height	483 x 480 x 133 mm
Weight	26.0 Kg
Terminal	M6

Application

- Solar energy storage
- Wind energy storage



***LCD display is optional

Advantage summary

- 15+ years of design life, 19" rack mounting module design;
- Direct Lead Acid Battery (AGM/GEL) replacement for 48V 50Ah;
- Faster charge, 1 hour of charging can provide up to 90% charge;
- High energy density and conversion efficiency;
- Excellent high and low temperature operation;
- High cycle times and longer service life of >6000 cycles @80% DOD ;
- Can support paralleling use for increased requirement;
- Safety in use: Intelligent, user friendly BMS inside, No explosion, No fire;
- Intelligent automatic protection for overcharge, over discharge and temperature conditions;
- Ultra low self discharge rate <1.5%/month;
- No maintenance required through out the lifetime;
- Great power saver;
- Superior DOD (100%) over lead acid batteries;
- RS485, RS232 , CAN communication (optional) output;
- BMS with internal cell balancing function to ensure long service life;
- Excellent high temperature performance, ultra low life decay rate in operating when harsh environment;
- Excellent PSOC (partial stage of charge) cycle life, which is the best ideal choice for solar energy storage;
- Optimized for photovoltaic applications, using high temperature and high cycle life active materials;



Performance curve

