

PRODUCT SPECIFICATIONS

Lithium Iron Phosphate (LifePO4) Battery



Techline - TE48150 (48V 150Ah)

PART NUMBERS

Description

Part No.

Lithium Iron Phosphate (LifePO4) Battery

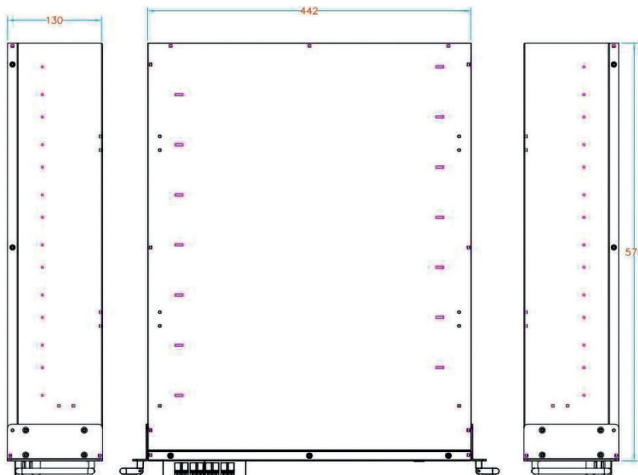
PW-B348150BG1



FETURE OF LIFEPO4 BATTERY

- **Longer Cycle Life:** Offers up to 10 times longer cycle life and five 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. Suitable replacement for lead acid batteries.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** - 20~55°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation, Smart BMS monitoring real time critical parameter data. safety protections as Over- current, Over- voltage, Alarm, Over- temperature, Short- circuit.
- **Environmental Friendly:** Battery Cell can be recycled, No hazards element emitted during use, Reduce carbon foot print.

PHYSICAL DIMENSION (MM)



APPLICATION

- Indoor/outdoor telecom base stations ETC.
- UPS.
- Household energy storage system.
- Smart transportation backup power supply.

PRODUCT CLASSIFICATION

Country Of Origin

Jordan

QMS certified, State of art manufacturing facility,

Matching global quality standard for the product

PRODUCT SPECIFICATIONS

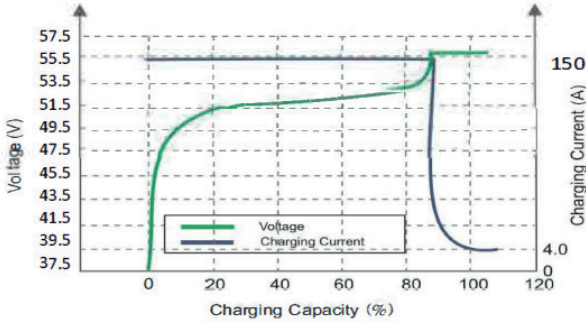
Lithium Iron Phosphate (LifePO4) Battery

PRODUCT SPECIFICATIONS		
Electrical Characteristics	Nominal Voltage	48.0V
	Nominal Capacity	150Ah
	Nominal Energy	7200Wh
	Architecture	15S 1P Cell no. 15
	Cycle Life	3000 cycles @80%DOD @25°C @0.5C
	Months Self Discharge	3% / Per Month
	Efficiency of Charge	>= 92%
	Efficiency of Discharge	>= 98%
Standard Charge	Recommended Charging Voltage	53.5V
	Recommended Charging Current	30A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A
Standard Discharge	Recommended Discharging Current	30A
	Max. Discharge Current	150A
	Discharge Cut-off Voltage	40.5V
Environmental	Charge Temperature	0°C~55°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C (After one month one cycle& keep at 50% SOC)
Additional Features	Communication	RS 485 & CAN 2.0 (Optional)
	Safety	Anti-theft Gyroscopic
	CLD (Current Limit Diode)	10A
	Power Connectors	2 Positive, 2 Negative
Other	IP Class	IP 20
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	442*130*570mm
	Weight (kg)	65 kg.
	Dry contact	No. 2
Product Certifications	Cells are certified For	IEC 62133, IEC 62119 & UN 383.3
	BMS certified For	EMI - EMC , ROHS, CE

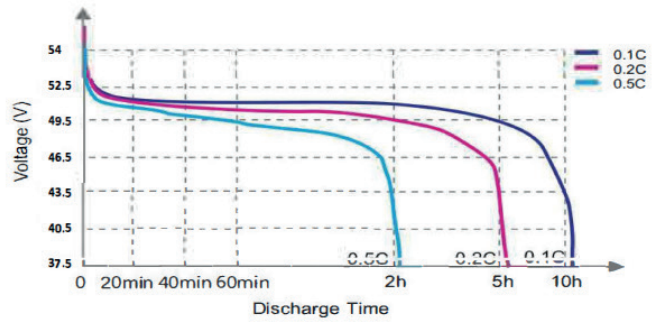
PRODUCT SPECIFICATIONS

Lithium Iron Phosphate (LifePO4) Battery

A. Battery charge discharge curve

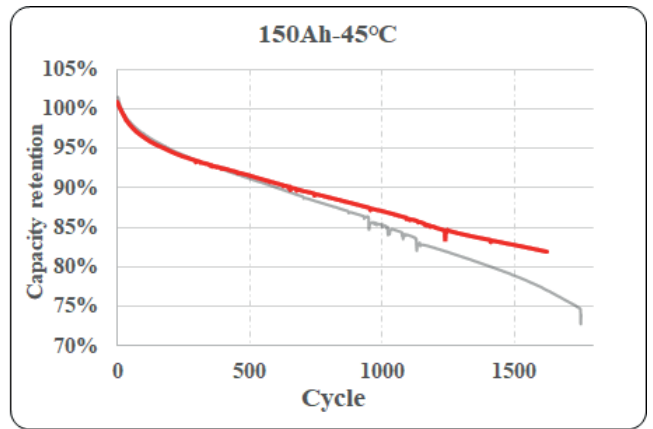
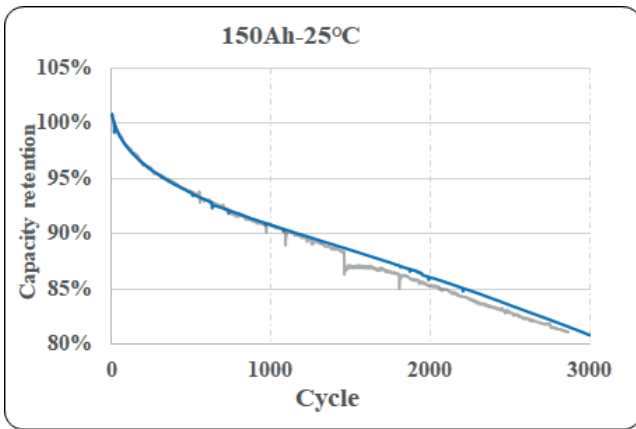


Charging Curve at 1C under 25°C



Different Rate Discharge Curve (25°C)

B. life curve at 0.5C & 1C



C. Temperature curve during charging & discharging at different C rate

