

**EDLF - 48100 (48V 100Ah)**

PART NUMBERS	
Description	Part No.
Lithium Iron Phosphate (LifePO4) Battery	LB-48100



**FETURE OF LIFEPO4 BATTERY**

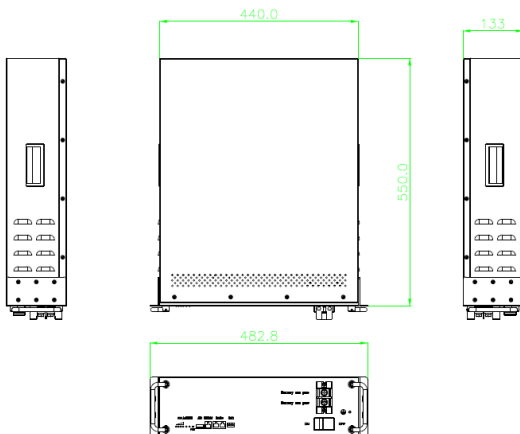
- **Longer Cycle Life:** Offers up to 10 times longer cycle life and five times longer float/ calendar life than lead acid battery, helping ti minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A'drop in' replacement 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:** - 20~60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation

**APPLICATION**

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

**PRODUCT CLASSIFICATION**

Country Of Origin	Jordan
Portfolio	TechLine



## PRODUCT SPECIFICATIONS

### Lithium Iron Phosphate (LifePO4) Battery

PRODUCT SPECIFICATIONS		
<b>Electrical Characteristics</b>	Nominal Voltage	48.0V
	Nominal Capacity	100Ah
	Nominal Energy	4800W
	Combination Method	15S1 P
	Cycle Life	>=6000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
<b>Standard Charge</b>	Recommended Charging Voltage	54.0V
	Recommended Charging Current	20A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A
<b>Standard Discharge</b>	Recommended Discharging Current	50A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	40.0V
<b>Environmental</b>	Charge Temperature	0°C~4 5°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
<b>Other</b>	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	505*133*440mm
	Weight (kg)	43 kg
	optional	Anti-theft function,

# PRODUCT SPECIFICATIONS

## Lithium Iron Phosphate (LifePO4) Battery

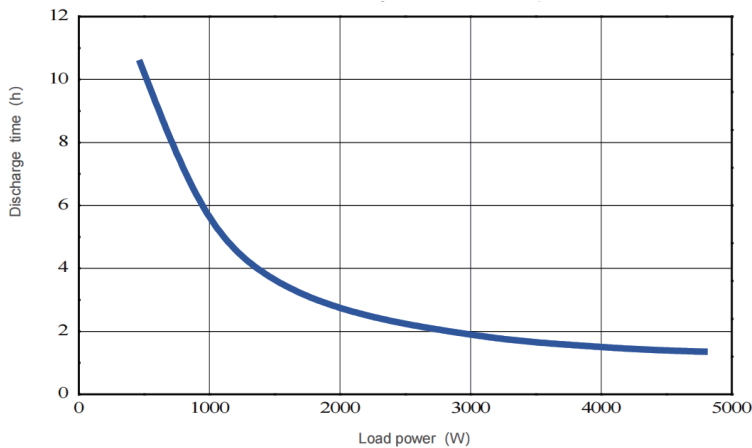
### EDLF-48100 Series Constant Current Discharge Characteristics (25°C, 77°F)

Voltage	Time/h	Current/A									
		0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C
46.5V		9.55	4.70	3.04	2.20	1.67	1.33	1.06	0.87	0.69	0.54
45.0V		9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72
43.5V		10.12	4.97	3.27	2.42	1.90	1.55	1.30	1.13	0.99	0.87
42.0V		10.30	5.10	3.34	2.47	1.95	1.62	1.36	1.18	1.03	0.92
40.0V		10.50	5.20	3.41	2.54	2.00	1.65	1.40	1.22	1.07	0.95

### EDLF-48100 Constant Power Discharge Characteristics (25°C, 77°F)

Voltage	Time/h	Power/W									
		480	960	1440	1920	2400	2880	3360	3840	4320	4800
46.5V		9.54	4.69	3.02	2.18	1.65	1.32	1.05	0.86	0.68	0.53
45.0V		9.88	4.85	3.17	2.32	1.8	1.47	1.22	1.01	0.85	0.7
43.5V		10.1	4.95	3.24	2.41	1.89	1.53	1.28	1.11	0.98	0.86
42.0V		10.28	5.1	3.33	2.43	1.92	1.58	1.31	1.15	1.01	0.9
40.0V		10.35	5.15	3.37	2.44	1.95	1.6	1.35	1.18	1.04	0.92

### Discharge Curves



## EDLF - 48150 (48V 150Ah)

### PART NUMBERS

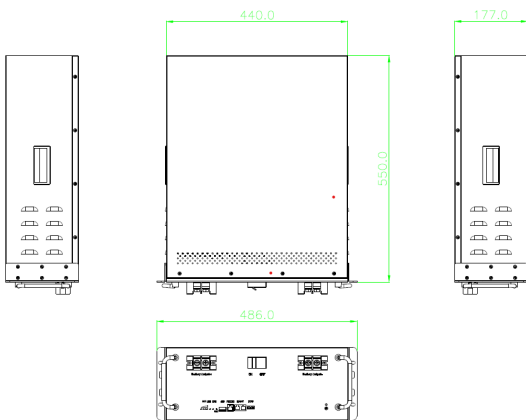
Description	Part No.
Lithium Iron Phosphate (LifePO4) Battery	LB-48150



### 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. A 'drop in' 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:** - 20-60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation

### 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
Portfolio	TechLine

## PRODUCT SPECIFICATIONS

### Lithium Iron Phosphate (LifePO4) Battery

PRODUCT SPECIFICATIONS		
<b>Electrical Characteristics</b>	Nominal Voltage	48.0V
	Nominal Capacity	150Ah
	Nominal Energy	7200W
	Combination Method	15S1 P
	Cycle Life	>=6000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
<b>Standard Charge</b>	Recommended Charging Voltage	54.0V
	Recommended Charging Current	30A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A
<b>Standard Discharge</b>	Recommended Discharging Current	75A
	Max. Pulse Current	150A
	Discharge Cut-off Voltage	40.0V
<b>Environmental</b>	Charge Temperature	0°C~45°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
<b>Other</b>	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	440*177*550mm
	Weight (kg)	67 kg
	optional	Anti-theft function

# PRODUCT SPECIFICATIONS

## Lithium Iron Phosphate (LifePO4) Battery

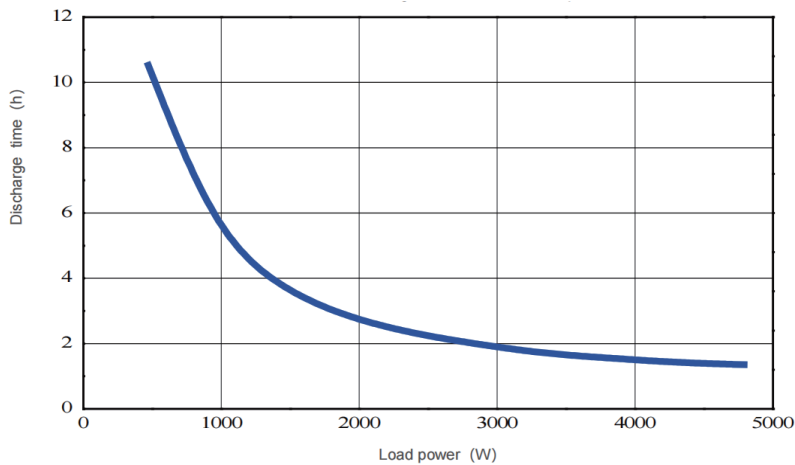
### EDLF-48150 Series Constant Current Discharge Characteristics (25°C, 77°F)

Voltage	Time/h	Current/A						
		0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.67C
46.5V		9.55	4.70	3.04	2.20	1.67	1.33	1.06
45.0V		9.89	4.87	3.19	2.34	1.82	1.49	1.24
43.5V		10.12	4.97	3.27	2.42	1.90	1.55	1.30
42.0V		10.30	5.10	3.34	2.47	1.95	1.62	1.36
40.0V		10.50	5.20	3.41	2.54	2.00	1.65	1.40

### EDLF-48150 Constant Power Discharge Characteristics (25°C, 77°F)

Voltage	Time/h	Power/W						
		720	1440	2160	2880	3600	4320	4800
46.5V		9.54	4.69	3.02	2.18	1.65	1.32	1.05
45.0V		9.88	4.85	3.17	2.32	1.8	1.47	1.22
43.5V		10.1	4.95	3.24	2.41	1.89	1.53	1.28
42.0V		10.28	5.1	3.33	2.43	1.92	1.58	1.31
40.0V		10.35	5.15	3.37	2.44	1.95	1.6	1.35

### Discharge Curves



EDLF - 48200 (48V 200Ah)

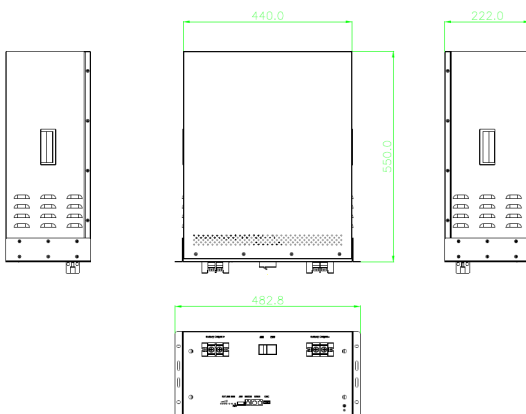
PART NUMBERS	
Description	Part No.
Lithium Iron Phosphate (LifePO4) Battery	LB-48200

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 ti minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A'drop in' 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:** - 20-60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation



PHYSICAL DIMENSION (MM)



APPLICATION

- Indoor/outdoor telecom base stations ETC.
- UPS.
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PRODUCT CLASSIFICATION

Country Of Origin	Jordan
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## PRODUCT SPECIFICATIONS

### Lithium Iron Phosphate (LifePO4) Battery

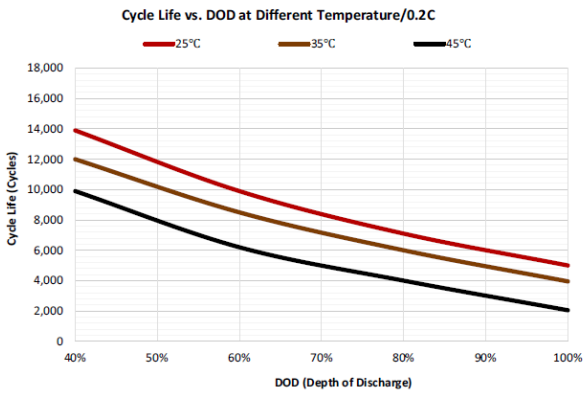
PRODUCT SPECIFICATIONS		
<b>Electrical Characteristics</b>	Nominal Voltage	48.0V
	Nominal Capacity	200Ah
	Nominal Energy	9600W
	Combination Method	15S1 P
	Cycle Life	>=6000cycles @80%DOD @25°C (0.2C charge)
	Months Self Discharge	3%/M
	Efficiency of Charge	>= 97%
	Efficiency of Discharge	>= 98%
<b>Standard Charge</b>	Recommended Charging Voltage	54.0V
	Recommended Charging Current	40A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A
<b>Standard Discharge</b>	Recommended Discharging Current	100A
	Max. Pulse Current	200A
	Discharge Cut-off Voltage	41.0V
<b>Environmental</b>	Charge Temperature	0°C~60°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	-5°C~45°C
<b>Other</b>	IP Class	IP 30
	Case	Metal
	Dimensions (W)x(H)x(D) (mm)	442*222*550mm
	Weight (kg)	81 kg
	optional	Anti-theft function



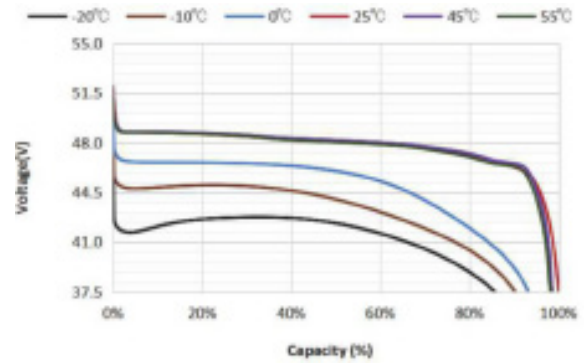
# PRODUCT SPECIFICATIONS

## Lithium Iron Phosphate (LifePO4) Battery

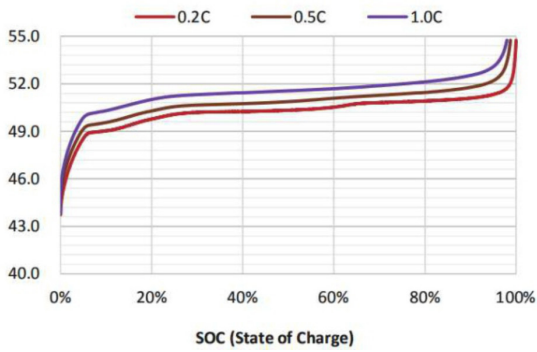
### Cycle life vs. DOD at different temperature



### Discharge curve at different temperature



### Charge curve with different current rate@25°C



### Discharge curve with different current @ 25°C

