

EDLF - 48100 (48V 100Ah)

PART NUMBERS

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



FETURE OF LIFEPO4 BATTERY

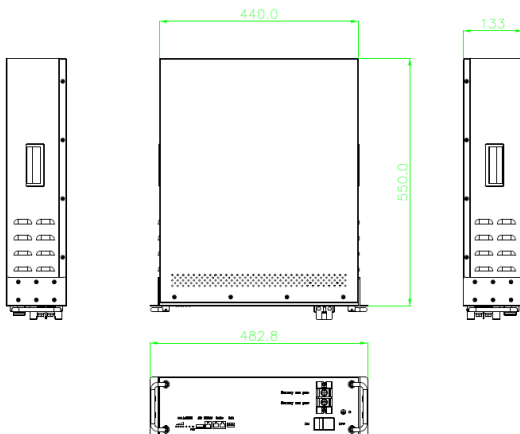
- **Longer Cycle Life:** Offers up to 10 times longer cycle life and five times longer float/ calendar life than lead acid battery, helping ti minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A'drop in' replacement 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		
Electrical Characteristics	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%
Standard Charge	Recommended Charging Voltage	54.0V
	Recommended Charging Current	20A
	Max. Charging Voltage	54.75V
	Max. Charging Current	100A
Standard Discharge	Recommended Discharging Current	50A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	40.0V
Environmental	Charge Temperature	0°C~4 5°C
	Discharge Temperature	-20°C~60°C
	Storage Temperature	0°C~40°C
Other	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

