Shenzhen Leadyo Technology Co.,LTD

Smart Battery ,Safe Life. www.liffeo4-power.com

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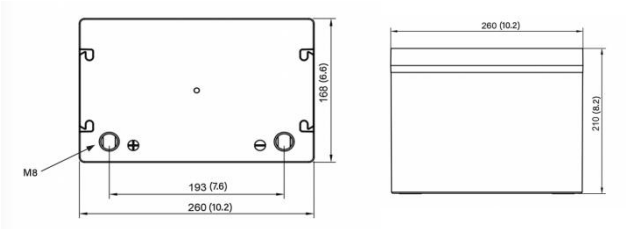
Lithium Iron Phosphate (LiFePO4) Battery

12.8V, 70Ah/70A BMS

Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 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 C~60 C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and max 20 batteries in parallel.

Physical Dimension



Application

- Electric vehicles,Boats,Caravan,
- electric mobility Solar/wind energy
- storage system UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Specification of battery pack

Our Deep Cycle has 12 volts (12.8V) and a 70Ah capacity and is perfect for powering your deep cycle systems, this lithium battery a strong, safe and easy to use energy storage solution,This is a very safest Lithium technology available now,with our unique BMS and electronics further increase safety and durability.

Can be connected in parallel for increased capacity, and connected in series for increased voltage Max 48V.

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	70Ah
Nominal Energy	896Wh
Internal Resistance	≤30 @50% SOC
Capacity	@ 25A: 240minutes(4hours)
Self Discharge	5% /per month
Maximum In Series and Parallel	4pcs
Maximum In Parallel	Recommended max 12pcs

MECHANICAL SPECIFICATIONS

Terminal Type	2*M8 Bolts
Weight	10kg
Case Dimension(L*W*H)	10.2 x 6.6 x 8.2” 260 x 168 x 210 mm
Case Type	ABS IP56
Cell type / Chemistry	Prismatic-LiFePO4 chemistry
Bluetooth	
BMS:low voltage,high voltage,over temperature,	
Over current,short-circuit protection ,Balancing .etc	

Discharge Current and Voltage Specifications

MAX Continuous Discharge Current	70A
Peak Current	200A（10s)
Discharge pulse current	300A±50A （31±10ms)
BMS Low Voltge Cut-off	8.8V (2.2V±0.05v) pc)
BMS Reconnect Voltage	10.8V (2.7V±0.05v) pc)
Short Circuit Protection	200-800 μs Auto recover or charge release

Charge Current and Voltage Specifications

Max Charge Current	70A
Recommended Charge Current	5A - 50A
End of Charge voltage	14.4V±0.2V
BMS Over Charge Voltage Cut-off	15V(3.75V±0.05v pc)
Balancing Voltage	3.6V±0.05v pc
Cell Balancing current	116±10mA

Temperature Ranges

Discharge Temperature	-20 ~ +65℃
Charge Temperature	-20 ~ +45℃
Storage Temperature Range	-20 ~ +45℃
Battery High Temperature Protection	60℃

COMPLIANCE SPECIFICATIONS

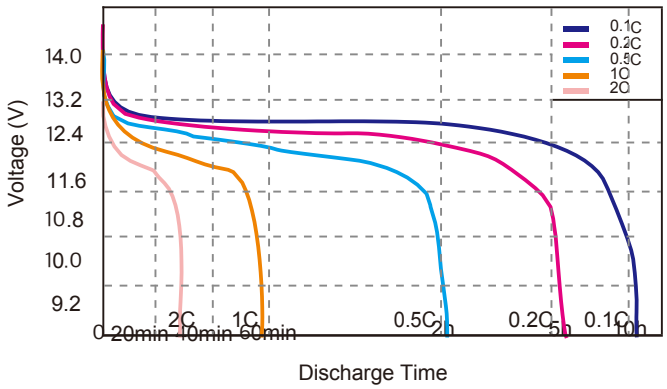
Certifications	CE for Battery Pack
	UN38.3 for Battery Pack
	UL1642 & IEC62133 & BIS for cells
Shipping classification	UN 3480

Packing Pictures

PERFORMANCE CHARACTERISTICS

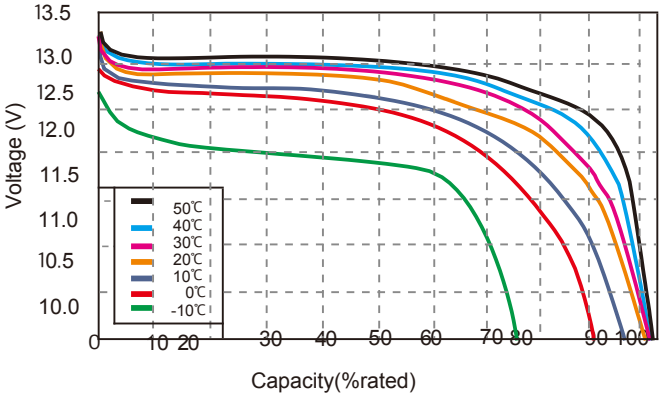
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



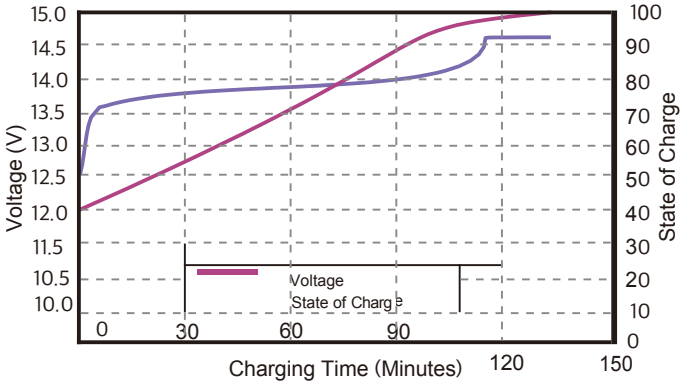
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



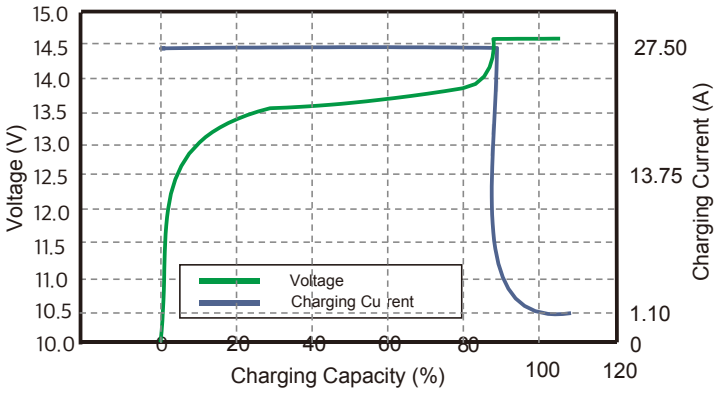
State of Charge Curve

State of Charge Curve @0.5C 25℃



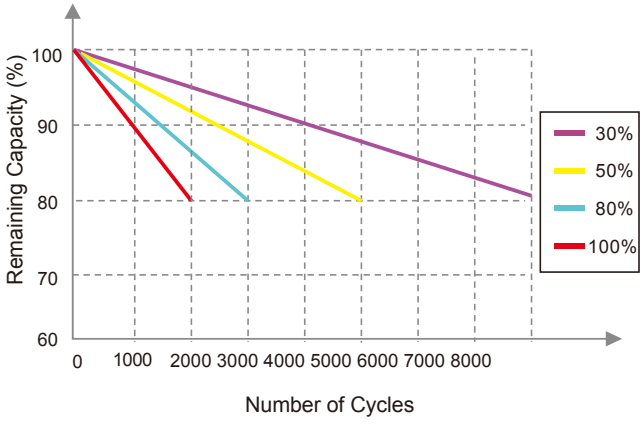
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve