



LEXRON Provides Safe and Efficient LFP Battery Solutions.

LXR 51.2 series designed for different types of applications, such as small UPS, home energy storage, portable mobile power supply, which is the best choice of small capacity, long standby or cyclic use.

Features

- Safest lithium battery technology
- Lithium iron Phosphate Battery(LiFePO4)
- Eco-friendly
- Special protection plate
- Multiple safety protection
- Intelligent balancing function
- 20 Years Designed service life

Mechanical Specifications

Case Material	ABS
Cell Type-Chemistry	Prismatic LiFePO4
Terminal Type	M6
IP Grade	IP21

BMS Characteristics

Recommended Charge Current	50A
Maximum Charge Current	100A
Maximum Continuous Discharge Current	100A
Recommended Charge Voltage	54.4~55.2V
Max Charge Voltage	58.4V
Overcharge Protection Voltage	58.8~59.9V
Charge Mode	CC/CV
Discharge Cut-off Voltage	44.8V

Basic Performance

Nominal Voltage	51.2V
Nominal Capacity	100Ah(0.5C@25°C)
Standard Discharge Time	100A@60min
Capacity	5.12KWh
IR	≤ 10mΩ
Self Discharge	≤ 2%/Month
Cells	Square 100Ah
Cycle Life	6000 times(%80DOD)
Size (mm)	442*420*130
Weight (kg)	42kg

Charge Performance

Rated Charge Current	50A
Maximum Charge Current	100A
Rated Charge Voltage	54.4~55.2V
Charge Cut-off Voltage	> 58.4V(0.5~1.5S)
Reconnect Voltage	< 58.4V
Balancing Voltage	> 54V
System Series	NO

Discharge Performance

Rated Discharge Current	50A
Rated Discharge Cut-off Voltage	44V
Minimum Discharge Cut-off Voltage	>40V
Reconnect Voltage	>38.5V
Short Circuit Protection	200~600 μs
Short Circuit Current	Approx. 2000A

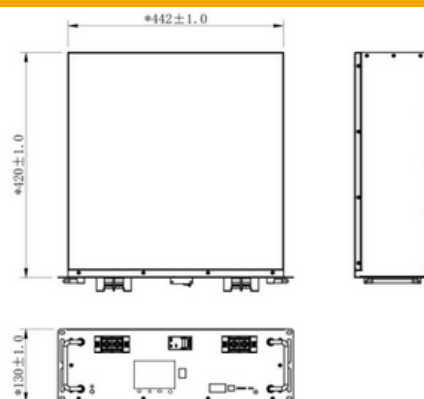
Temperature Performance

Discharge Temperature	-20~55°C
Charge Temperature	-5~50°C
Storage Temperature	-5~40°C
High Temperature Cut-off	65°C
Reconnect Temperature	45°C

Compliance

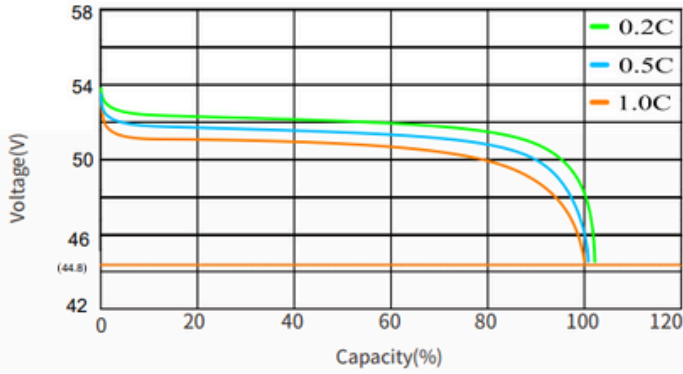
Certifications	CE/UN38.3/UL1973/IEC62619
Transport Appraisal	UN3480,CLASS 9

Size

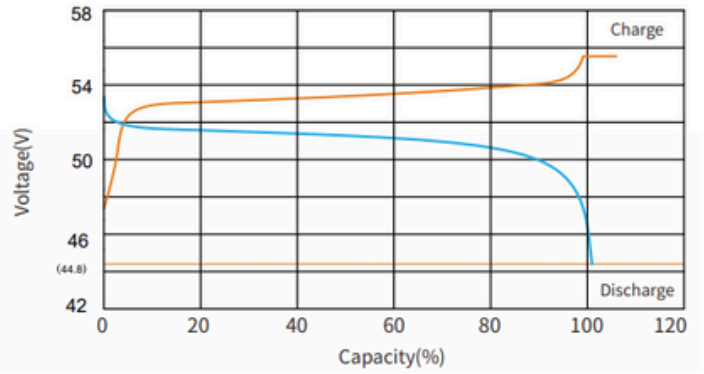


Characteristics Curve

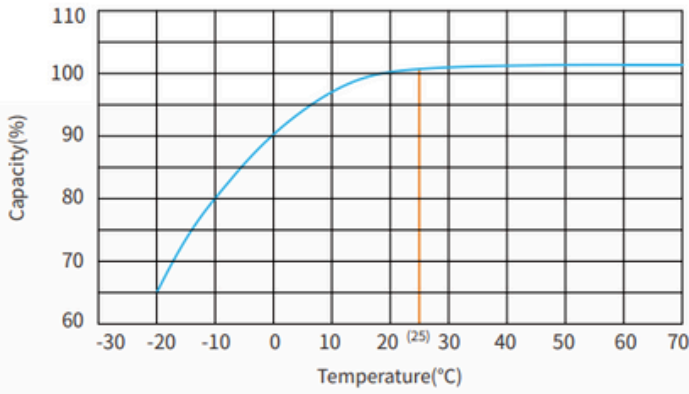
Discharge Performance at 25°C



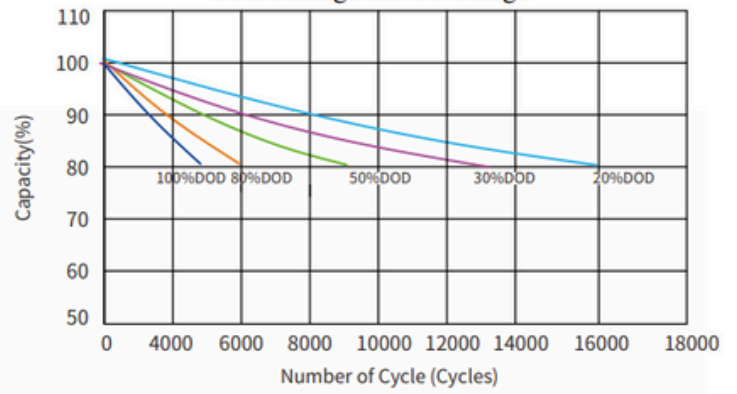
Charge and Discharge at 25°C, 0.5C



Temperature Effects on Capacity at 0.5C



Cycle Life with DOD at 25°C
1C Discharge and 1C Charge



Cautions

1. Do NOT short circuit, crush or disassemble.
2. Do NOT heat or incinerate.
3. Do NOT immerse in any liquid.
4. Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.
5. Disconnect charging source prior to connecting or disconnecting battery terminals.
6. Do not dispose of batteries in a fire as they can explode.
7. Do not open, alter, or mutilate batteries. Released electrolyte is harmful to skin and eyes. It may be toxic.
8. Do not mix different types and brands of lithium-ion batteries.
9. Do not dispose in trash, follow local regulations and manufacturer's instruction.
10. See installation instructions before connecting to the supply.
11. The battery cabinet receives power from more than one source. Disconnection of all DC sources is required to De-energize this unit before installing or servicing. Wait 5 minutes before opening the unit.
12. Do not install on or over combustible surfaces.
13. Refer to manual before servicing.
14. Do not touch bare terminals.