

Features

- Lithium Iron Phosphate Battery (LiFePO4)
- Inbuilt Battery Management System (BMS)
- Safe Design and Technology
- Intelligent balancing function
- 20 Years designed service life

EVI Power 12V LiFePO4 Series of lithium batteries use quality trustable LiFePO4 cells, with build-in BMS system, supporting series and parallel use. The battery is ideal for green energy storage with a long life and environmental friendly design.

MECHINICAL SPECIFICATIONS	
Case Material	ABS
Cell Type - Chemistry	Prismatic LifePO4
Terminal Type	M8
IP Grade	IP65

BMS CHARACTERISTICS	
Recommended Charge Current	50A
Maximum Charge Current	100A
Maximum Continuous Discharge Current	100A
Recommended Charge Voltage	13.6~13.8V
Max Charge Voltage	14.6V
Overcharge Protection Voltage	14.8~15.2V
Charge Mode	CC/cv
Discharge Cut-off Voltage Range	11.2V

TEMPERATURE PERFORMANCE	
Discharge Temperature	-20~60°C
Charge Temperature	0~45°C
Storage Temperature	-5~35°C
High Temperature Cut-off	65°C
Reconnect Temperature	48°C

BASIC PERFORMANCE	
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Standard Discharge Time	100A@60min
Energy	1.28K Wh
IR	<= 15mΩ
Self Discharge	<=2%/Month
Cells	Square 100Ah
Cycle Life	2500 times (1C/1C)
Weight	10.5KG
Size	306*169*210mm

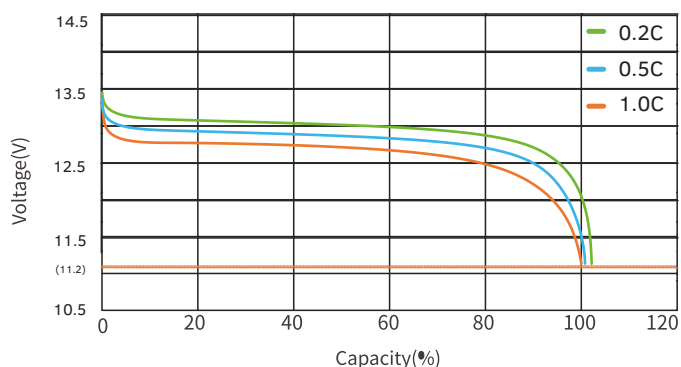
CHARGE PERFORMANCE	
Rate Charge Current	50A
Maximum Charge Current	100A
Rate Charge Voltage	13.6~13.8V
Charge Cut-off Voltage	> 14.8V(0.5~1.5S)
Reconnect Voltage	<14.4 V
Balancing Voltage	<14 V
System Series	<= 6

DISCHARGE PERFORMANCE	
Rated Discharge Current	100A
Pulse Current(<=5S)	600A
Rated Discharge Cut-off Voltage	11.2V
Reconnect Voltage	>10V
Short Circuit Protection	200~600 μs
Short Circuit Current	Approx. 1200A

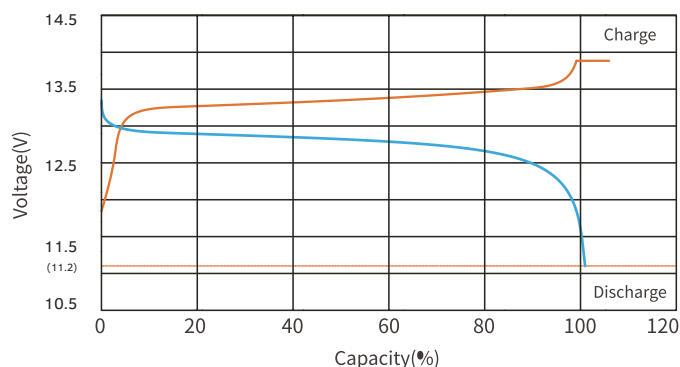
MECHINICAL SPECIFICATIONS	
Certifications	CE/UN38.3/UL1642/IEC62133
Transport Appraisal	UN3480,CLASS 9

Characteristics Curve

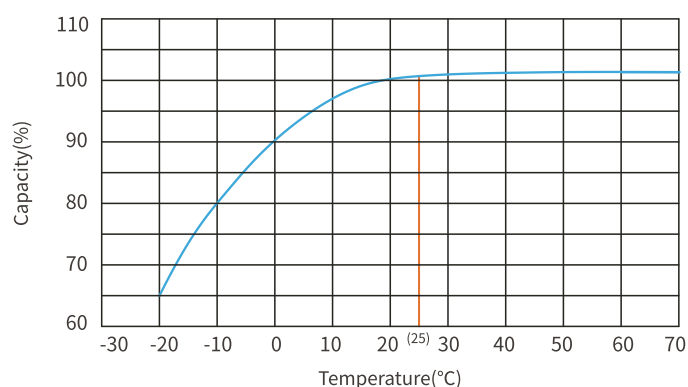
Discharge Performance at 25 °C



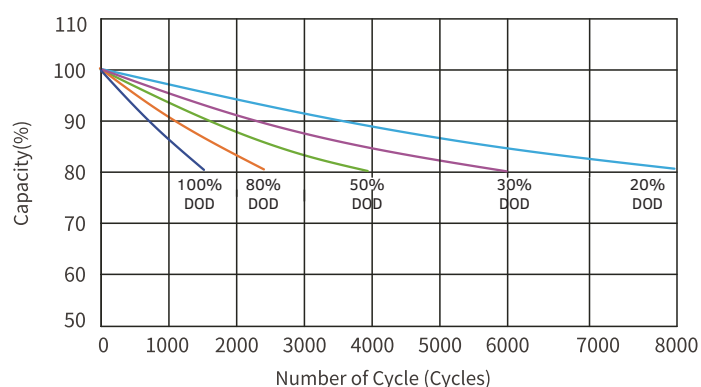
Charge and Discharge at 25 °C



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. If 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.