



LDP 24-100 (25.6V 100Ah)

lithium iron phosphate (LiFePO4) battery

**Your best power choice
for energy storage system!**



VTBatteries LiFePO4 solutions are more advanced, highly efficient and has many advantages over the traditional Lead Acid technology.

Here introducing popular LDP 24-100 battery of VTBatteries which is high demanding among different industry users for its most advanced features.

Application

- Wheel chair, sweeper, electric vehicle, robot
- Solar/wind energy storage system
- UPS Backup power
- Telecommunication
- Medical equipment
- Solar Street light

Advantage summary

- Direct Lead Acid Battery (AGM/GEL) replacement for 100 AH.
- Faster charge, 1 hour of charging can provide up to 90% charge (Optional)
- High energy density and conversion efficiency
- Environmental Friendly, without any heavy metals
- High cycle times and longer service life of >3000 cycles @100% DOD
- Great high temperature performance
- Safety in use: Advanced intelligent BMS inside, No explosion, No fire.
- Ultra low self discharge rate <1.5%/month
- No maintenance required through out the lifetime.
- Great power saver
- Superior DOD (100%) over lead acid batteries.
- No acid splash and carbon mono-oxide emission so no need expensive battery maintenance room.





ELECTRICAL SPECIFICATIONS

Nominal Voltage	25.6 V
Nominal Capacity	100 Ah
Capacity @ 0.5C	120 min
Energy	2560.2 Wh
Resistance	≤50 mΩ
Self Discharge	<1.5% Per Month
Maximum Modules In Series	Up to 25 (51.2V)

CHARGE SPECIFICATIONS

Recommended Charge Current	20 A
Maximum Charge Current	50 A
Recommended Charge Voltage	28.4 V-29.2 V
BMS Charge Voltage Cut-Off	30.4 V (3.8 ±0.025 VPC) (1.1 ±0.4 s)
Reconnect Voltage	28.8 V (3.6 ±0.05 VPC)
Charging Method	CC-CV

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (<3s)
Recommended Low Voltage Disconnect	22 V (2.75 VPC)
BMS Discharge Voltage Cut-Off	16 V (2.0 ±0.08 VPC) (20 ±6 ms)
Reconnect Voltage	20 V (2.5 ±0.05 VPC)
Short Circuit Protection	200-600 μs

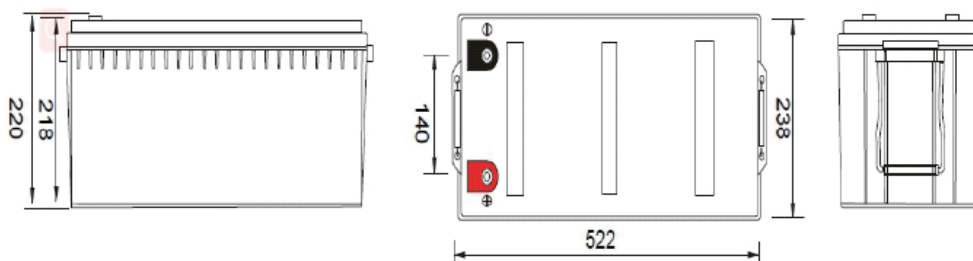
TEMPERATURE SPECIFICATIONS

Discharge Temperature	- 4 °F to 140 °F (-20°C to 60 °C)
Charge Temperature	32 °F to 140 °F (0 °C to 60 °C)
Recommend Storage Temperature	32°F to 104 °F (0°C to 40 °C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	20.6 x 9.4 x 8.7 "
	522 x 238 x 220 mm
Weight	27.0 Kg
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP55

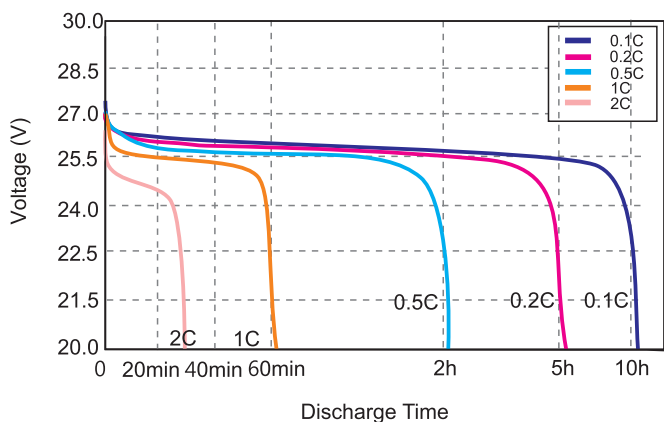
DIMENSIONAL SPECIFICATIONS



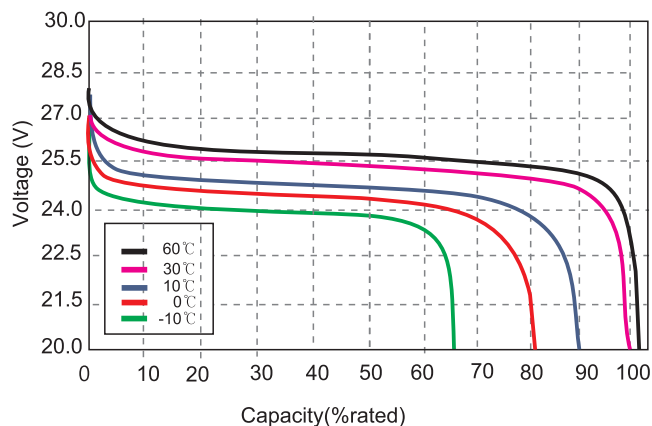


Performance curve

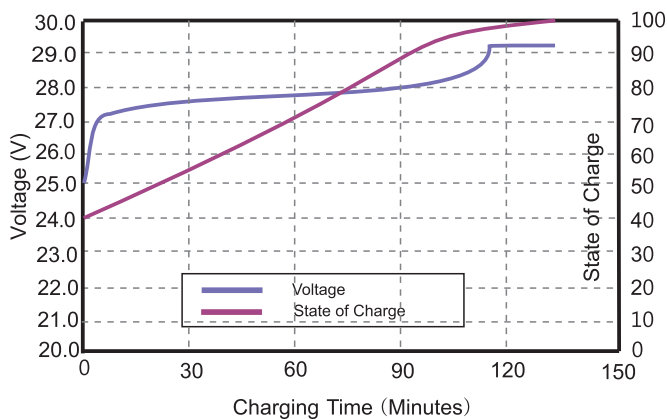
Different Rate Discharge Curve @25°C



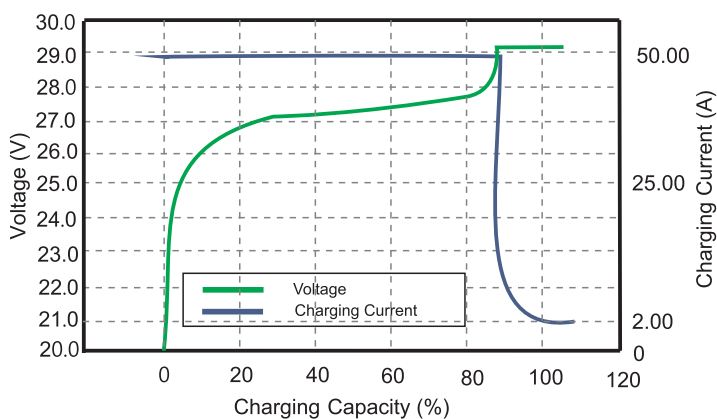
Different Temperature Discharge Curve @0.5C



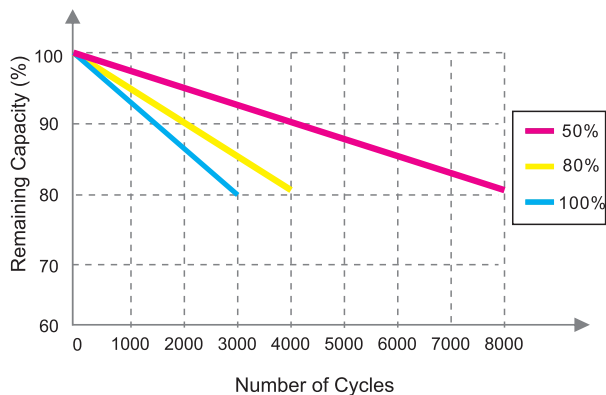
State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge Cycle Life Curve @1C



Different Temperature Self Discharge Curve

