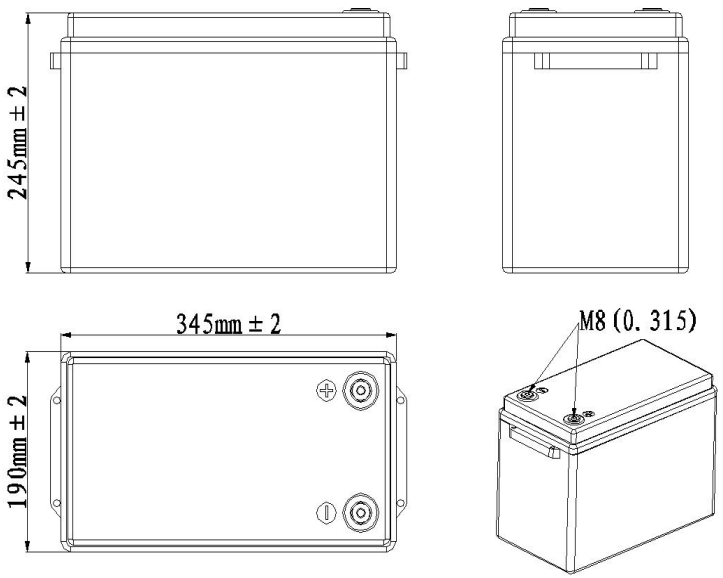


12.8V 300Ah Dual-Purpose Cranking & Deep Cycle LiFePO4 Battery

THE ELECTRIC ADVANTAGE		MECHANICAL SPECIFICATIONS	
Nominal Voltage	12.8V	Dimensions (L x W x H)	345*190*245MM
Working Voltage	10V-14.6V	Weight	25.9KG
Recommed Voltage	11.4-13.8V	Terminal Type	M8
Cells	4 pcs	Case Material	ABS
Nominal Capacity	304Ah EVE	IP Rate	IP67
Reserve Minutes @50A	360Minutes	Self Discharge	3% Per Month
THE TECHNOLOGY ADVANTAGE		**TEMPERATURE SPECIFICATIONS**	
Cell Chemistry	Lithium Iron Phosphate (LiFePO4)	Working Temperature	-20-60℃
Cell Type	Prismatic	Storage Temperature	10～45℃
Cell Configuration	4S 1P	BMS High Temperature Cut-Off	65°,
Series Connectable	No	Reconnect Discharger Temperature	60℃
Parallel Connectable	No	Reconnect Charger Temperature	55℃
DISCHARGE SPECIFICATIONS		**CHARGE SPECIFICATIONS**	
Continuous Discharge Current	200A	Recommended Charge Current	60A
CCA	**1200A**	Maximum Charging Current	100A
Recommended high Voltage Disconnect	14.6V	Recommended Charge Voltage	14.6V
BMS Discharge Voltage Cut-Off BMS	10V	BMS High Voltage Cut-Off	14.6V
Reconnect Voltage	11.4V	Charger Temp.Range	0～60℃

DIMENSIONAL SPECIFICATIONS



SAFETY

Charging Freeze Protection	Yes, 0℃
Pack Over-Voltage	Yes
Cell Balancing	Yes
Pack Under-Voltage	Yes
Cell Under-Voltage	Yes
Cell Over-Temp	Yes
BMS Over-Temp	Yes
Short Circut/Over Current	Yes

CENTIFICATIONS

Certifications	CE
	UN38.3
	COR
	RoHS
	MSDS

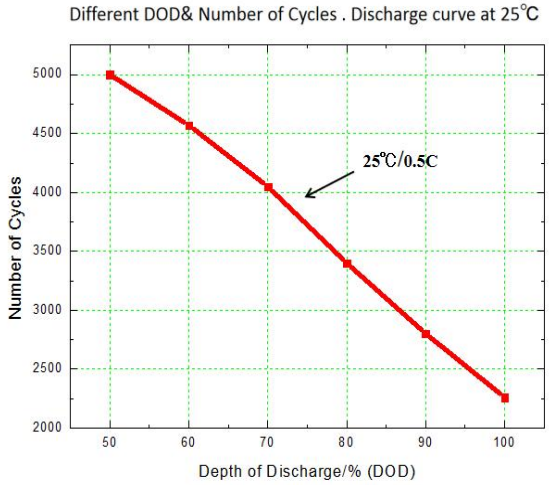
SHIPPING

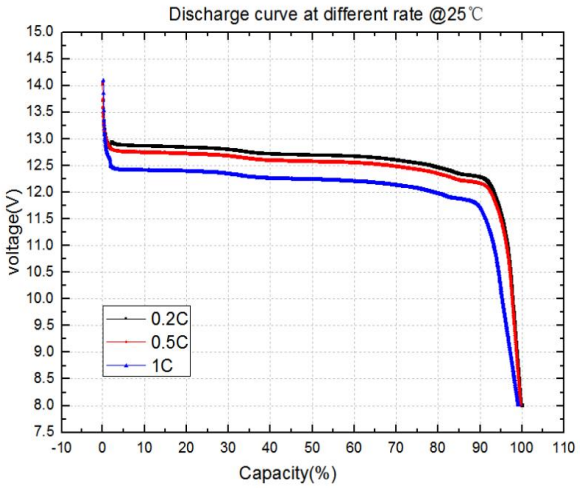
Package	1PCS/CARTON
Shipping Classification	UN 3480, CLASS 9

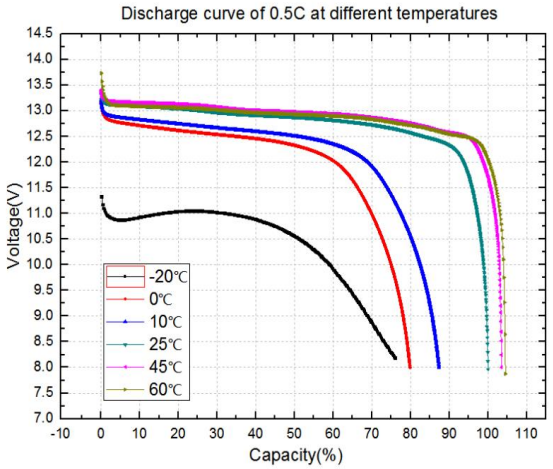
Benefits

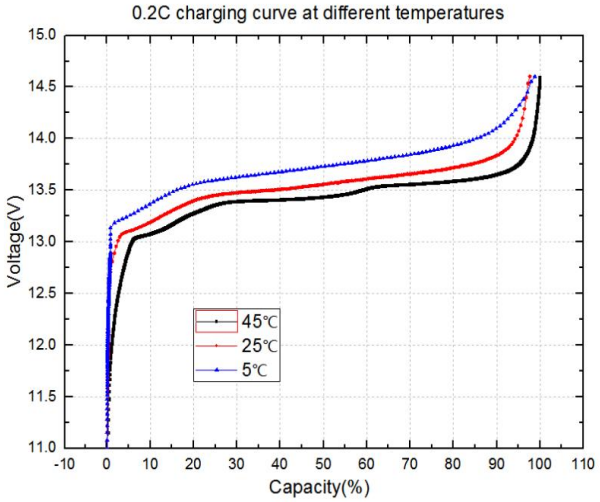
- 1/3 weight, Twice the power
- DOD can be 100%
- Can be installed indoors with no hydrogen gases generated, also no terminal corrosion.
- Output voltage is flat during most of the discharge cycle, increasing efficiency of your system.
- Can be charged up to 5 times faster than lead acid.
- Last 10 times longer than lead acid.
- Holds a charge for up to 1 year (without a load) without the need for a trickle charger.
- Great for unattended storage.

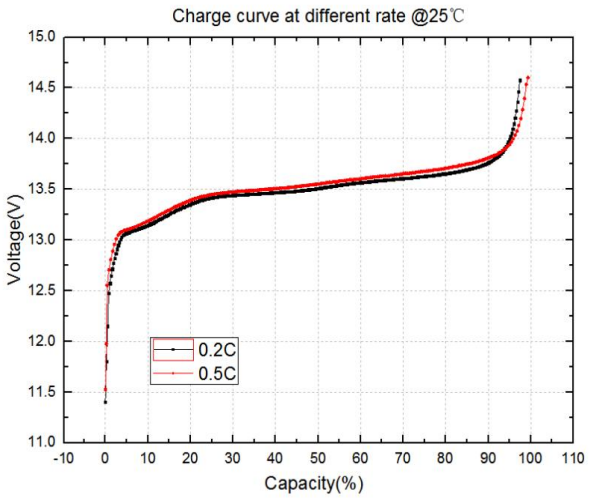
Pack curve


Different DOD& Number of Cycles . Discharge curve at 25℃
Number of Cycles
Depth of Discharge/% (DOD)
25℃/0.5C


Discharge curve at different rate @25℃
voltage(V)
Capacity(%)
0.2C
0.5C
1C


Discharge curve of 0.5C at different temperatures
Voltage(V)
Capacity(%)
-20℃
0℃
10℃
25℃
45℃
60℃


0.2C charging curve at different temperatures
Voltage(V)
Capacity(%)
45℃
25℃
5℃

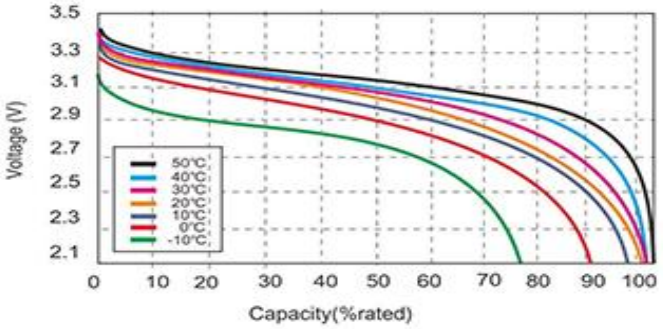

Charge curve at different rate @25℃
Voltage(V)
Capacity(%)
0.2C
0.5C

Cells curve

Cell Charts Characteristic Curve

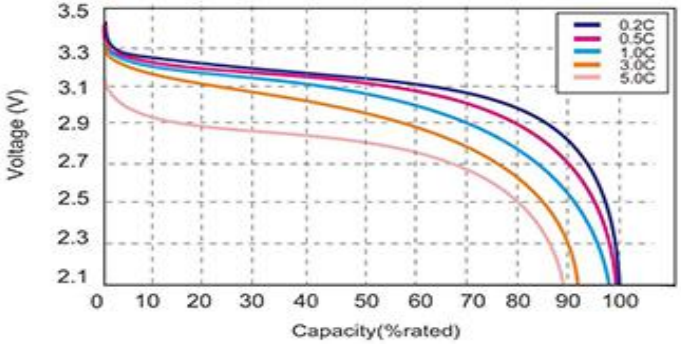
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



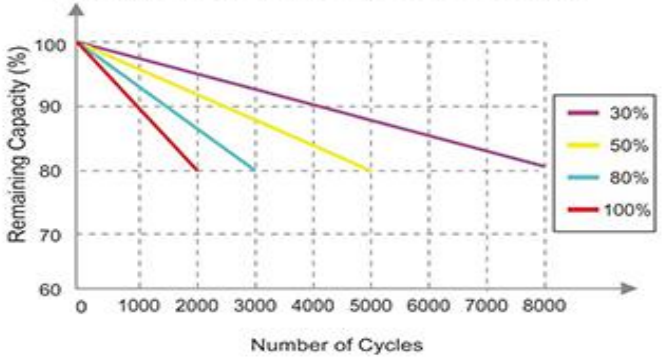
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

