12.8V-50Ah Lithium Iron Phosphate (LiFePO4) Battery

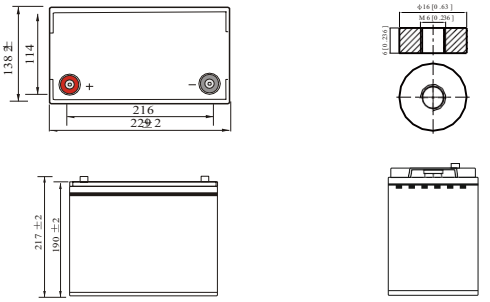
Features of LiFePO4 Battery

- **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 up to ten batteries in parallel.

Application

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

Physical Dimension



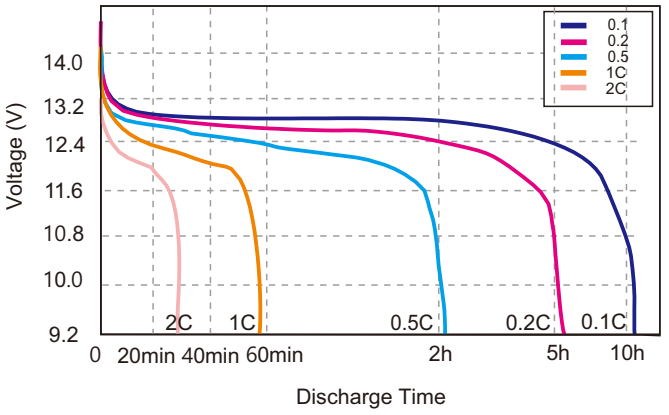
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	50Ah
	Energy	640Wh
	Internal Resistance	≤55mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @20A
Standard Charge	Charge Voltage	14.6± 0.2V
	Charge Mode	0.2C to 14. 6V, then 14. 6V,charge current to 0.02C (CC/CV)
	Charger Current	10A
	Max. Charge Current	20A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	10A
	Max. Pulse Current	20A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	32700 4S8P
	Plastic Case	ABS
	Dimensions (in./mm.)	229*138*217mm (9.16"*5.43"*8.54")
	Weight (lbs./kg.)	5.8Kg
	Terminal	M6

12.8V-50Ah Lithium Iron Phosphate (LiFePO4) Battery

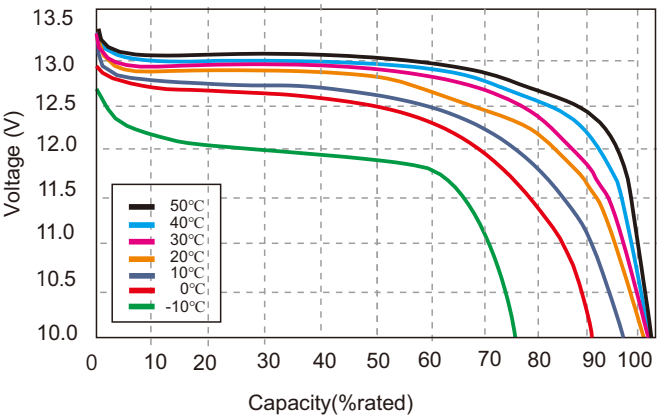
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



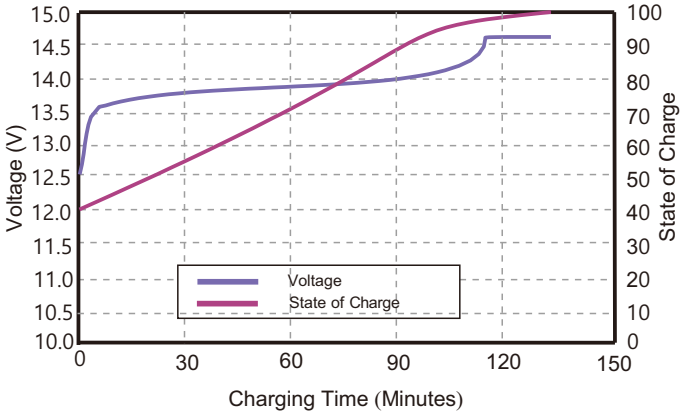
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



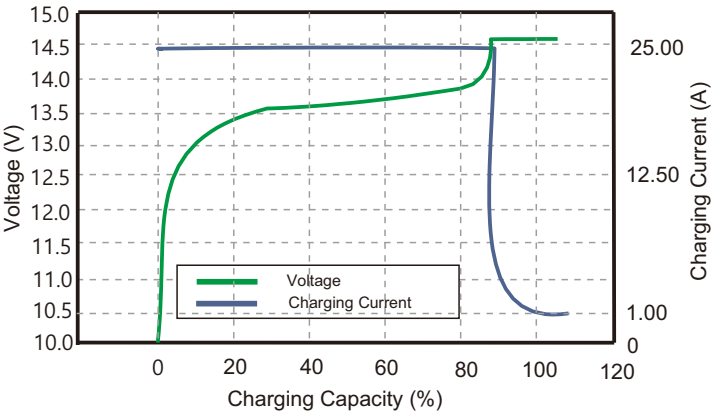
State of Charge Curve

State of Charge Curve @0.5C 25℃



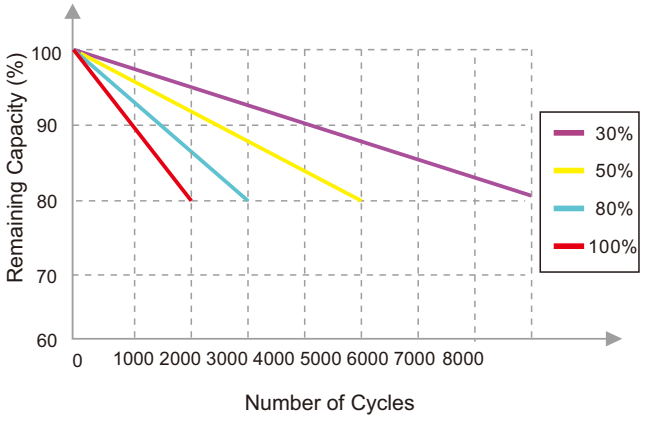
Charging Characteristics

Charging Characteristics @0.5C 25℃



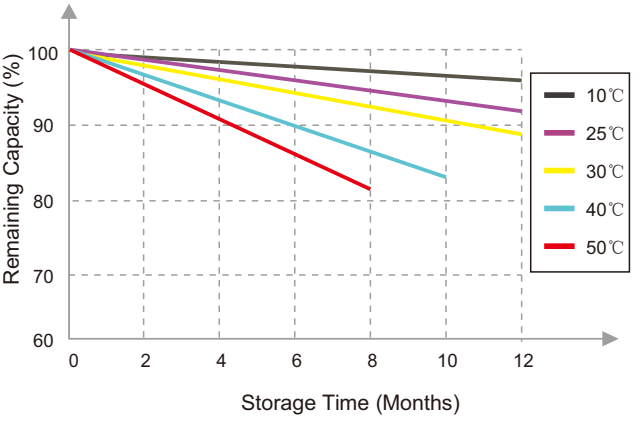
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



12.8V-80Ah Lithium Iron Phosphate (LiFePO4) Battery

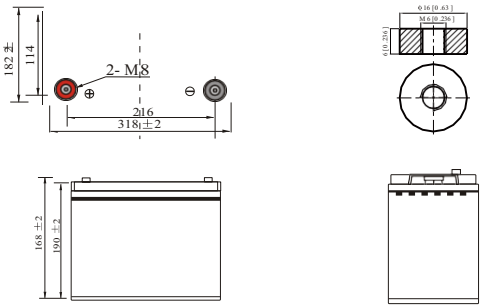
Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helpin g 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 up to ten batteries in parallel.

Application

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

Physical Dimension



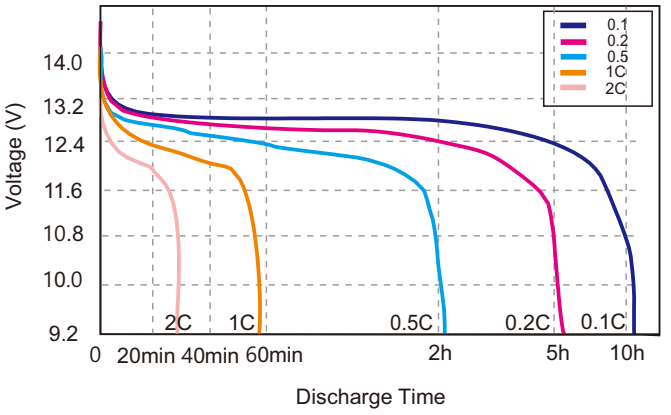
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	80Ah
	Energy	1024Wh
	Internal Resistance	≤50mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @50A
Standard Charge	Charge Voltage	14.6± 0.2V
	Charge Mode	0.2C to 14. 6V, then 14. 6V,charge current to 0.02C (CC/CV)
	Charger Current	16A
	Max. Charge Current	40A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	16A
	Max. Pulse Current	50A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	32700 4S13P
	Plastic Case	ABS
	Dimensions (in./mm.)	318*182*168mm (12.52"*7.17"*6.61")
	Weight (lbs./kg.)	9.2Kg
	Terminal	M8

12.8V-80Ah Lithium Iron Phosphate (LiFePO4) Battery

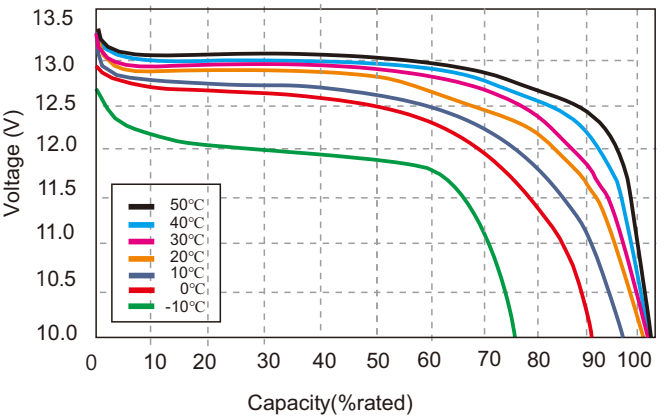
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



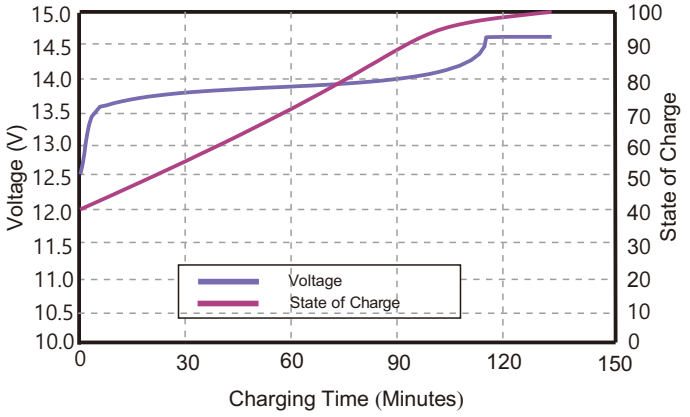
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



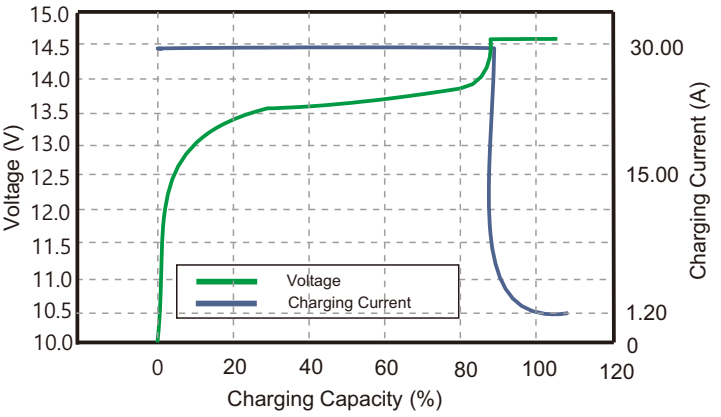
State of Charge Curve

State of Charge Curve @0.5C 25℃



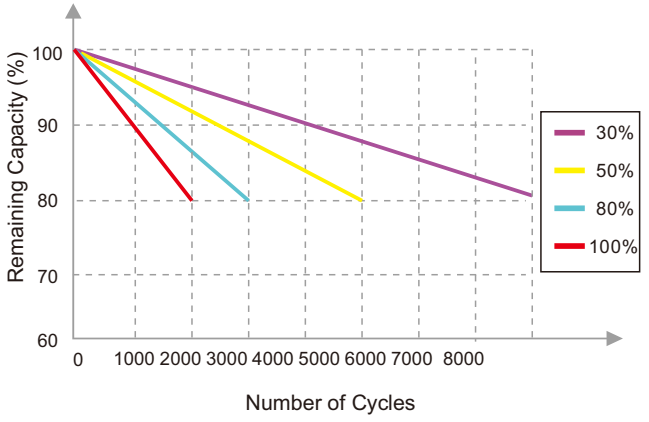
Charging Characteristics

Charging Characteristics @0.5C 25℃



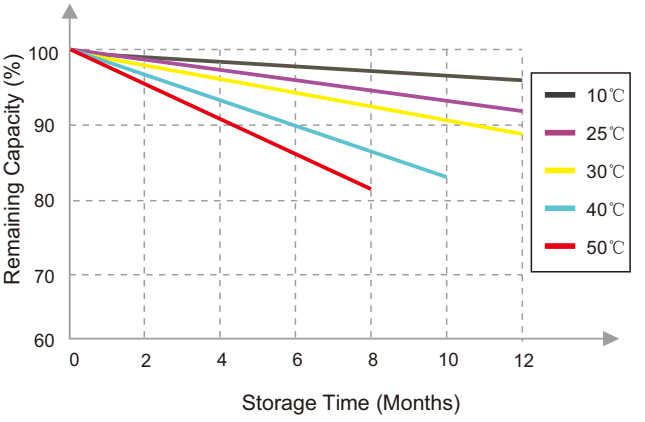
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



12.8V-100Ah Lithium Iron Phosphate (LiFePO4) Battery

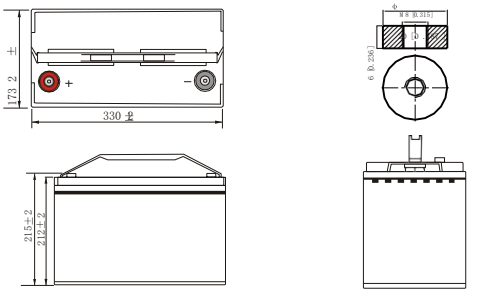
Features of LiFePO4 Battery

- **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 up to ten batteries in parallel.

Application

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

Physical Dimension



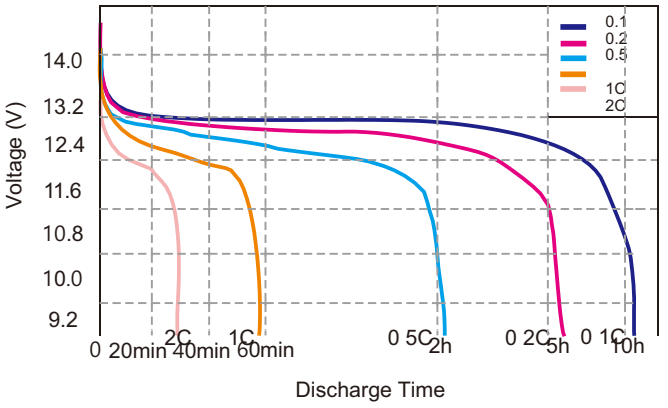
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Energy	1280Wh
	Internal Resistance	≤45mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @100A
Standard Charge	Charge Mode	14.6 0.2V
		0.2C to 14. 6V, then 14. 6V,charge current to 0.02C (CC/CV)
	Max. Charge Current	20A
		50A
		15.6V 0.2V
Standard Discharge	Continuous Current	20A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Water Dust Resistance	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
		IP65
Mechanical	Cell & Method	32700 4S16P
	Plastic Case	ABS
	Dimensions (in./mm.)	330*173*215mm (12.99"*6.81"*8.46")
	Weight (lbs./kg.)	12.5Kg
	Terminal	M8

12.8V-100Ah Lithium Iron Phosphate (LiFePO4) Battery

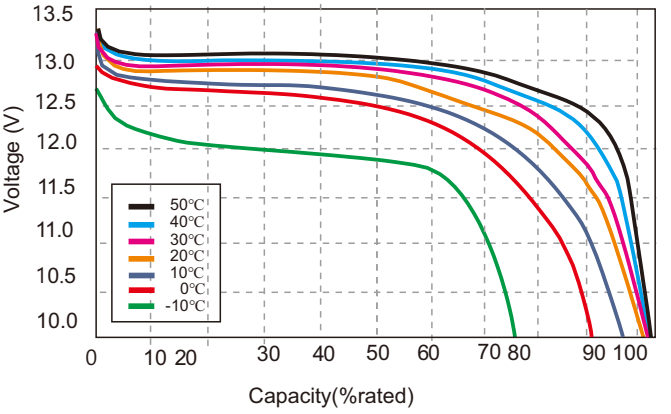
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



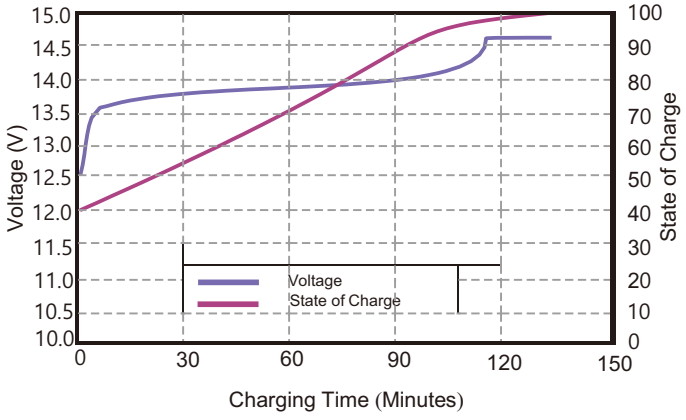
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



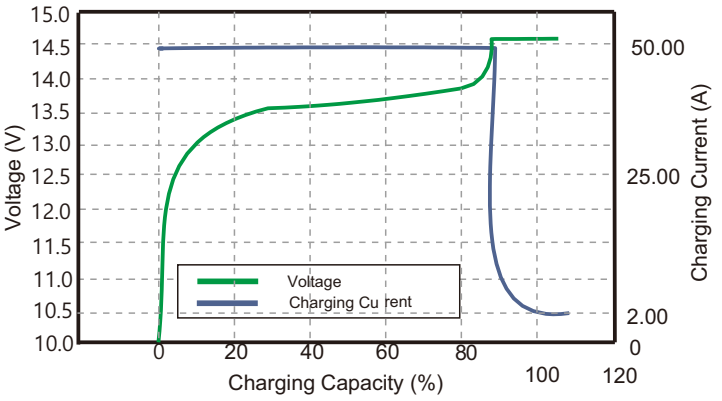
State of Charge Curve

State of Charge Curve @0.5C 25℃



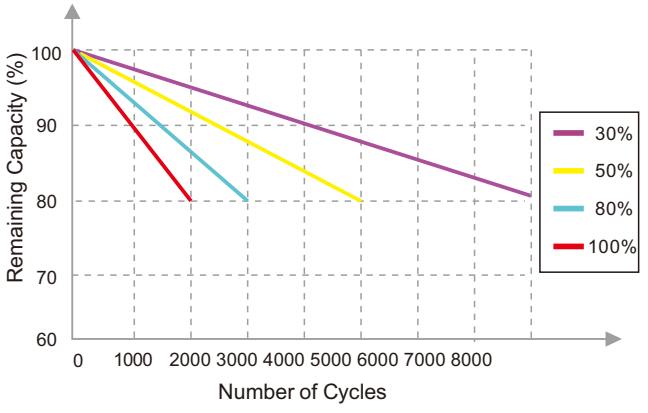
Charging Characteristics

Charging Characteristics @0.5C 25℃



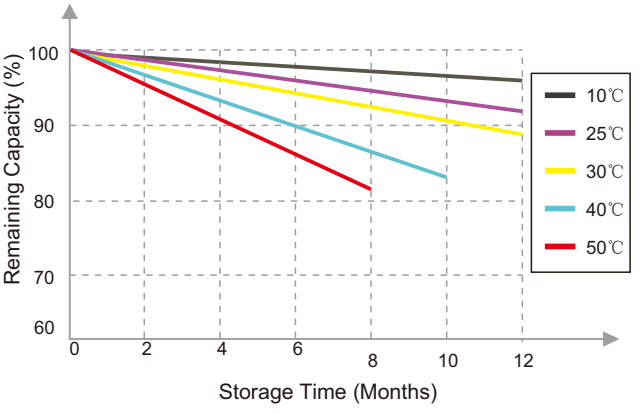
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



12.8V-120Ah Lithium Iron Phosphate (LiFePO4) Battery

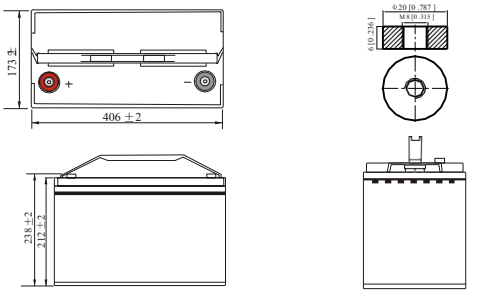
Features of LiFePO4 Battery

- **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 up to ten batteries in parallel.

Application

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

Physical Dimension



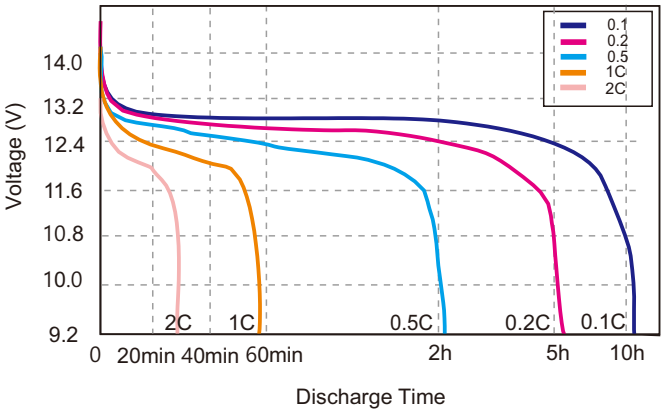
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	120Ah
	Energy	1536Wh
	Internal Resistance	≤45mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @100A
Standard Charge	Charge Voltage	14.6± 0.2V
	Charge Mode	0.2C to 14. 6V, then 14. 6V,charge current to 0.02C (CC/CV)
	Charger Current	24A
	Max. Charge Current	60A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	24A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	32700 4S20P
	Plastic Case	ABS
	Dimensions (in./mm.)	406*173*238mm (15.98"*6.81"*9.37")
	Weight (lbs./kg.)	15.6Kg
	Terminal	M8

12.8V-120Ah Lithium Iron Phosphate (LiFePO4) Battery

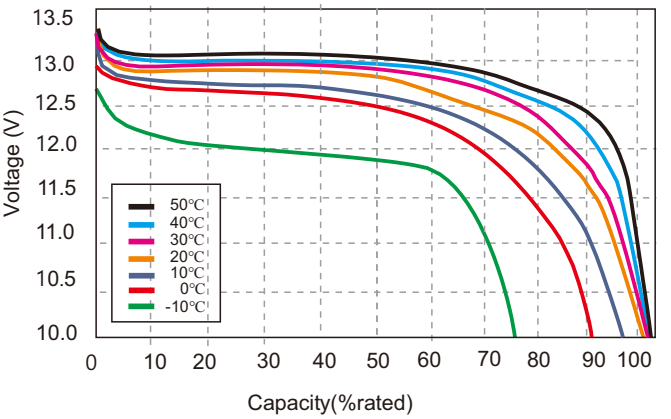
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



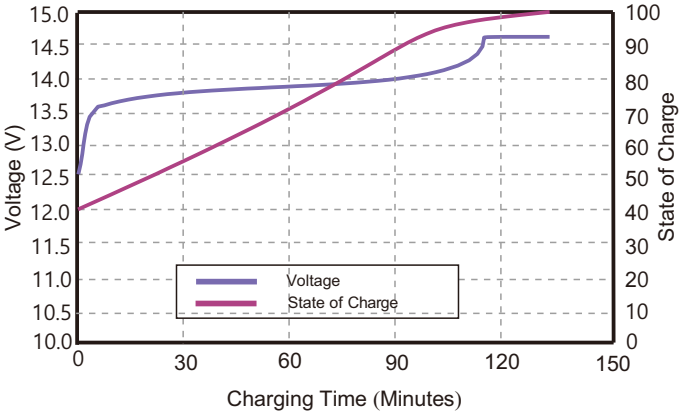
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



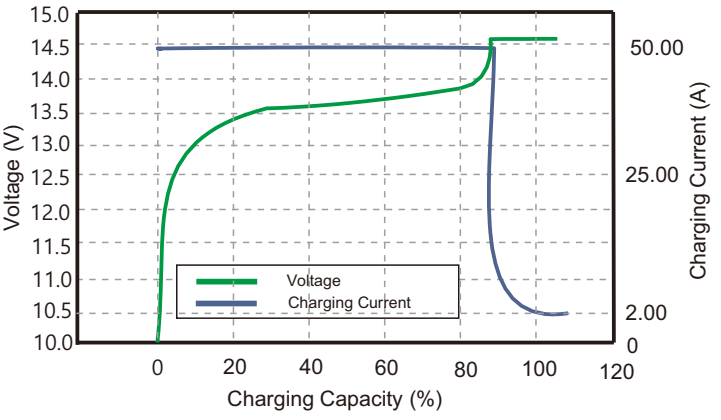
State of Charge Curve

State of Charge Curve @0.5C 25℃



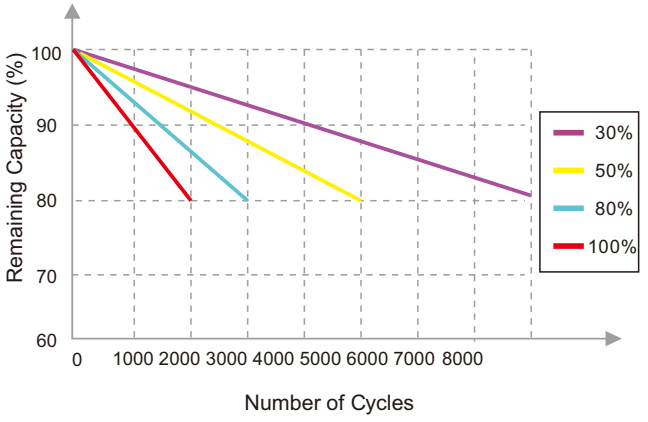
Charging Characteristics

Charging Characteristics @0.5C 25℃



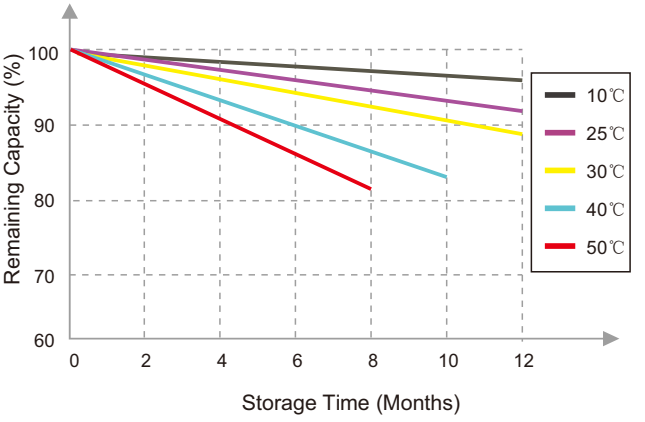
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



12.8V-150Ah Lithium Iron Phosphate (LiFePO4) Battery

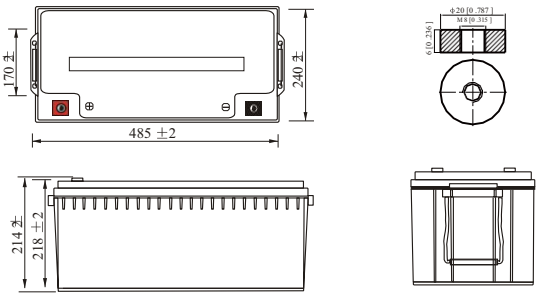
Features of LiFePO4 Battery

- **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 up to ten batteries in parallel.

Application

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

Physical Dimension



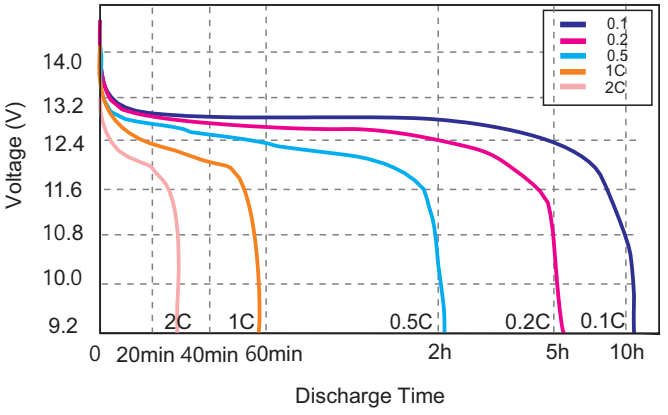
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	150Ah
	Energy	1920Wh
	Internal Resistance	≤40mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @100A
Standard Charge	Charge Voltage	14.6± 0.2V
	Charge Mode	0.2C to 14. 6V, then 14. 6V,charge current to 0.02C (CC/CV)
	Charger Current	30A
	Max. Charge Current	75A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	30A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	32700 4S25P
	Plastic Case	ABS
	Dimensions (in./mm.)	485*170*214mm (19.09"*6.69"*8.43")
	Weight (lbs./kg.)	19.5Kg
	Terminal	M8

12.8V-150Ah Lithium Iron Phosphate (LiFePO4) Battery

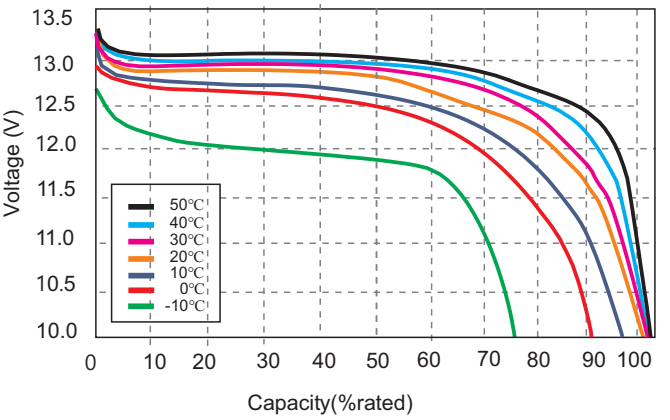
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



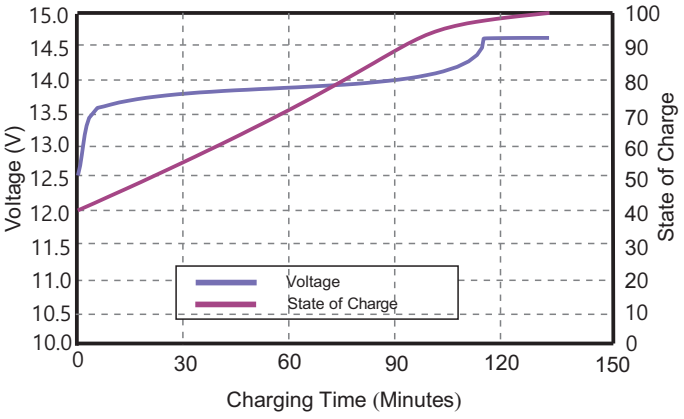
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



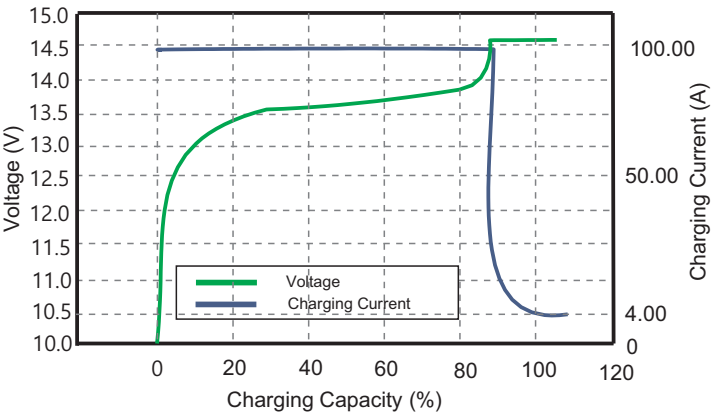
State of Charge Curve

State of Charge Curve @0.5C 25℃



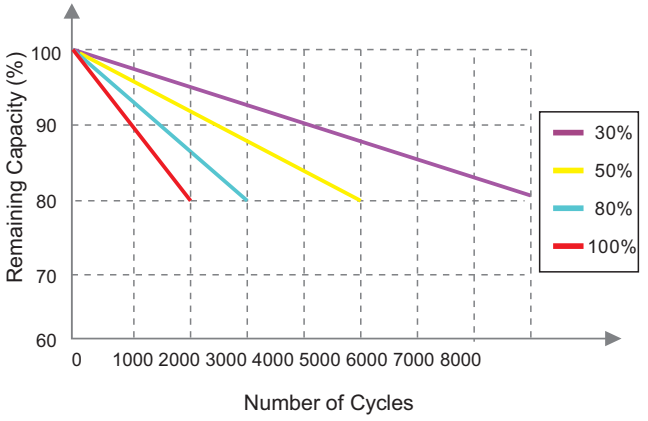
Charging Characteristics

Charging Characteristics @0.5C 25℃



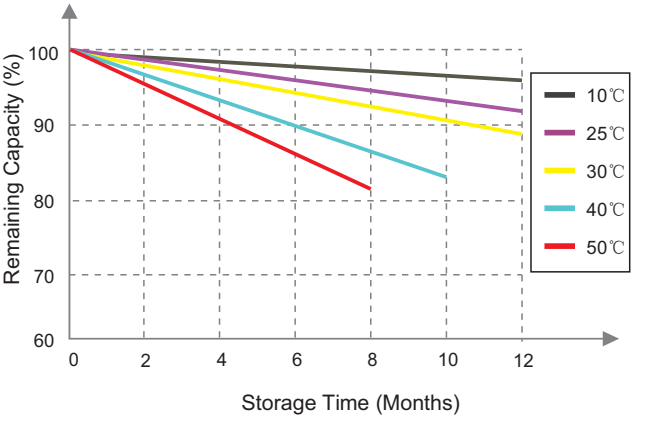
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



12.8V-200Ah Lithium Iron Phosphate (LiFePO4) Battery

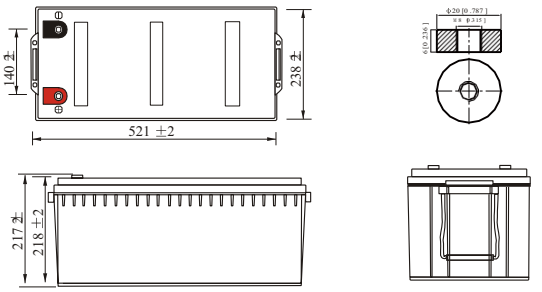
Features of LiFePO4 Battery

- **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 up to ten batteries in parallel.

Application

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

Physical Dimension



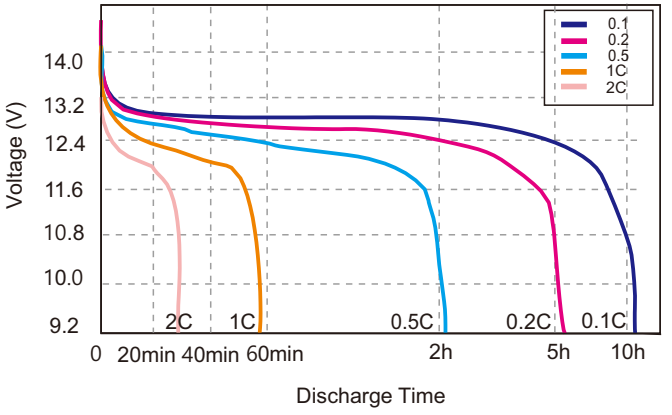
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	200Ah
	Energy	2560Wh
	Internal Resistance	≤40mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @100A
Standard Charge	Charge Voltage	14.6± 0.2V
	Charge Mode	0.2C to 14. 6V, then 14. 6V,charge current to 0.02C (CC/CV)
	Charger Current	40A
	Max. Charge Current	100A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	40A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	32700 4S33P
	Plastic Case	ABS
	Dimensions (in./mm.)	521*238*217mm (20.51"*9.37"*8.54")
	Weight (lbs./kg.)	23.5Kg
	Terminal	M8

12.8V-200Ah Lithium Iron Phosphate (LiFePO4) Battery

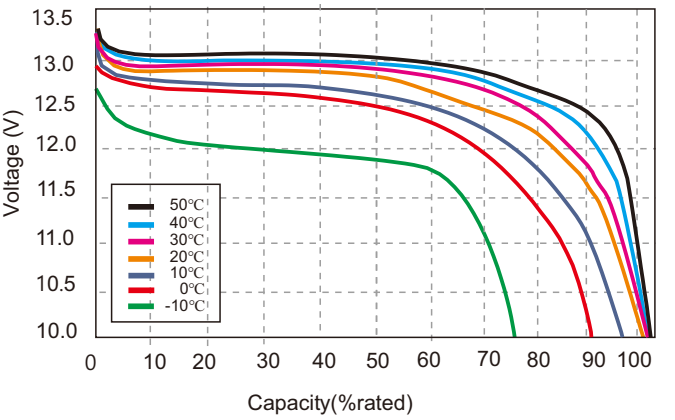
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



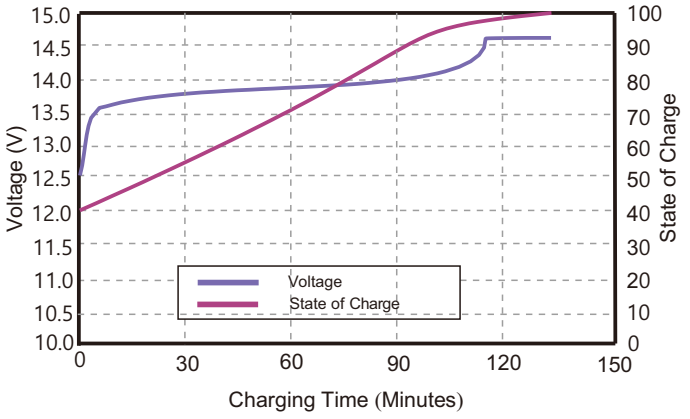
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



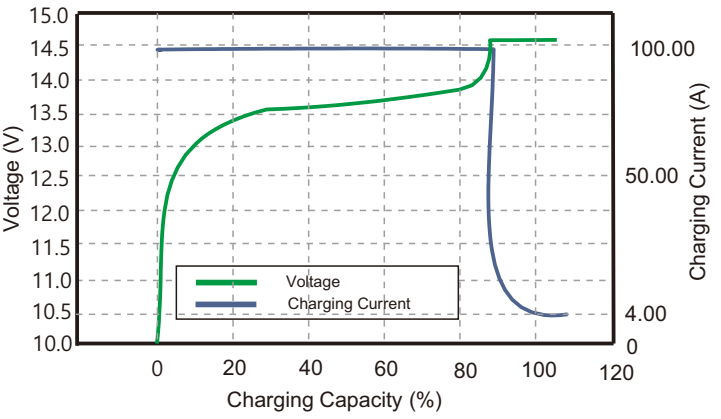
State of Charge Curve

State of Charge Curve @0.5C 25℃



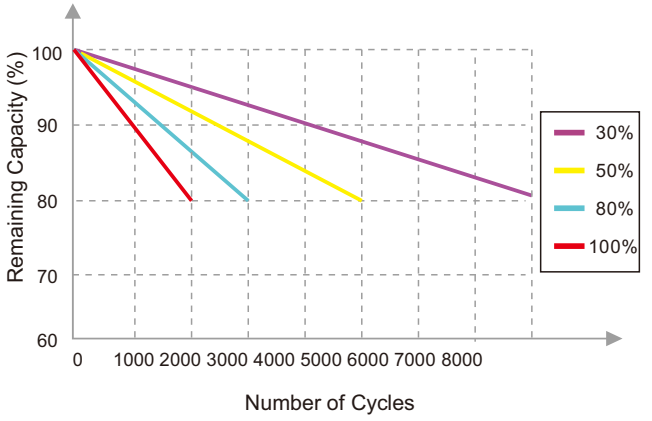
Charging Characteristics

Charging Characteristics @0.5C 25℃



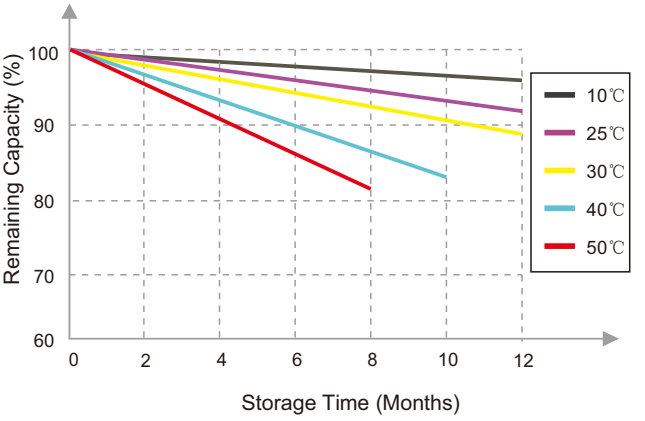
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



Bluetooth Screen Shots