

CLI4.5-12

12V 4.5AH

Lithium Iron Phosphate Battery - LiFePO4



CLI4.5-12



Physical Specification

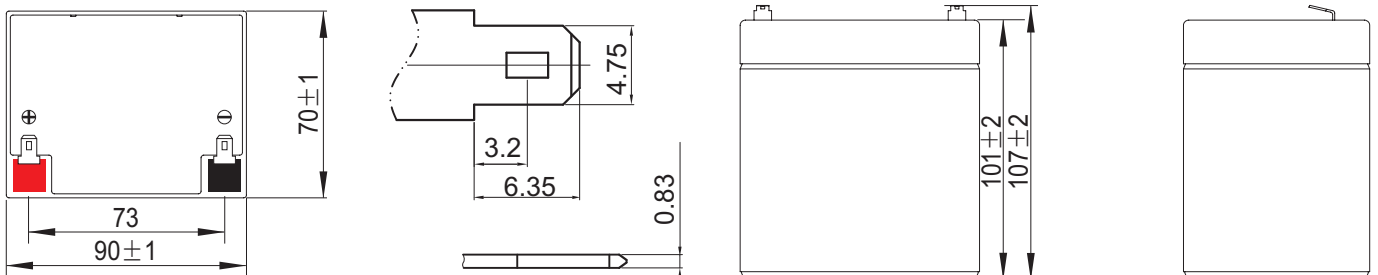
Part Number:	CLI4.5-12	
Width:	90	± 2 mm (3.54inches)
Depth:	70	± 2 mm (2.76inches)
Container Height:	107	± 2 mm (4.21inches)
Approx Weight:	0.85 kgs (1.87 lbs)	

Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	4.5AH @ 0.2C
	Energy	96Wh
	Internal Resistance (AC)	20mΩ
	Cycle Life	2500+ cycles @ 1C 100%DOD
	Monthly Self Discharge	Less than 3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
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)
	Charge Current	2.5A
	Max. Charge Current	4.5A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Continuous Current	12A
	Max. Pulse Current	15A (Less than 3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0°C to 55°C (32°F to 131°F) @ 60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4°F to 140°F) @ 60±25% Relative Humidity
	Storage Temperature	-20°C to 45°C (-4°F to 113°F) @ 60±25% Relative Humidity
	IP Class	IP65

Dimensions

T1 Terminal



Model: CLI4.5-12
Voltage: 12.8V

Capacity: 4.5Ah
Energy:96Wh

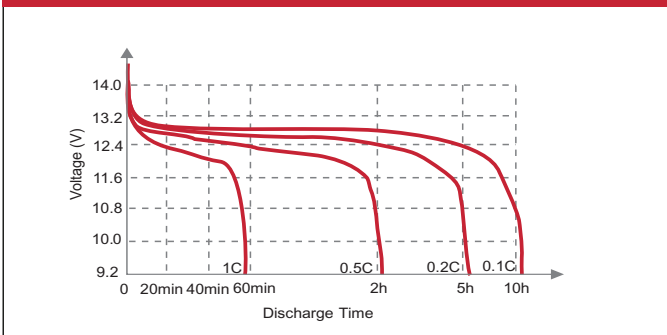
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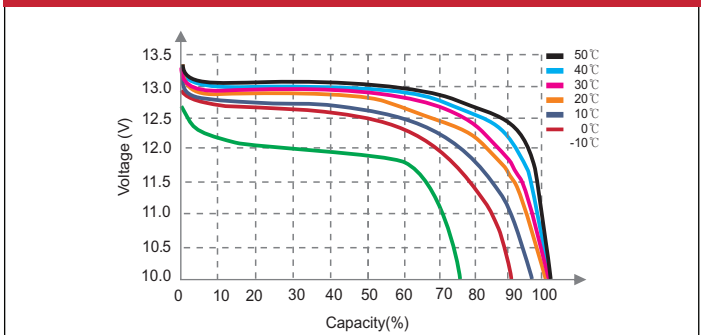


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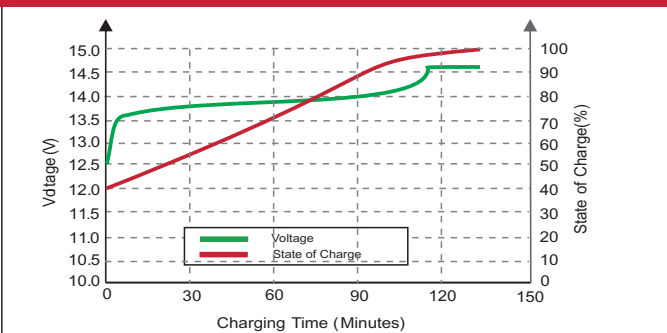
Different Rate Discharge Curve (25°C)



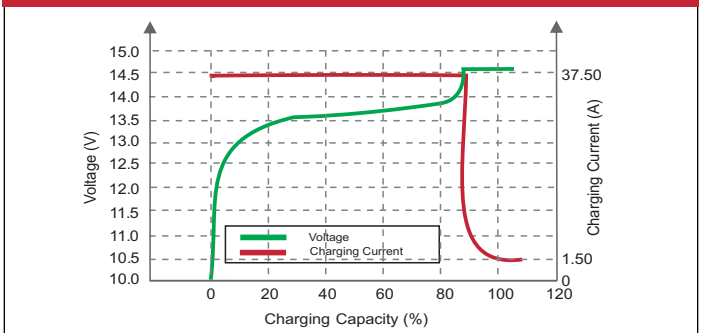
Different Temperature Discharge Curve (0.5C)



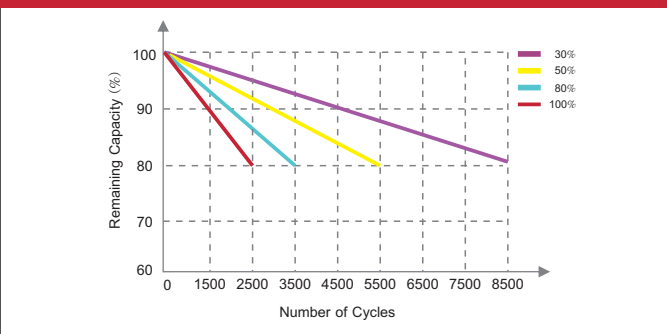
State of Charge Curve (0.5C, 25°C)



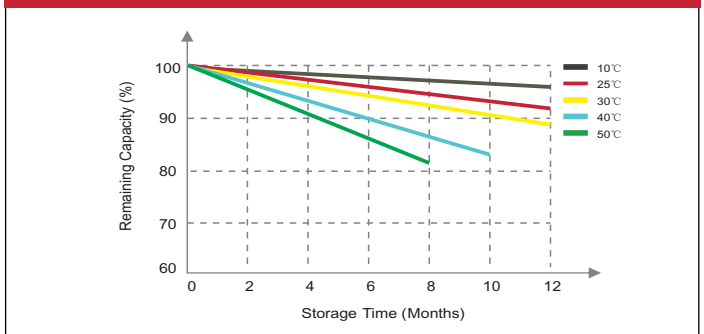
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve



Features of Lithium Iron Phosphate LiFePO4 Batteries



MINIMAL SELF-DISCHARGE

Less than 2% self-discharge per month, which means more power when you need it.



FASTER CHARGING

Charges much faster than conventional sealed lead-acid batteries, giving you access to reliable power quicker.



EASY INSTALLATION

Canbat lithium iron phosphate batteries are designed to be drop-in replacement for sealed lead-acid batteries.



HIGH DISCHARGE RATE

Ability to deeply discharge the battery at a high rate of discharge while maintaining a high energy capacity.



ENVIRONMENTALLY FRIENDLY

Toxic-free and acid-free, which makes them environmentally friendly and you can install them in any direction.



MORE USABLE CAPACITY

Lithium iron phosphate batteries provide up to 100% of usable energy, which means you can discharge the battery entirely.



LIGHT WEIGHT

Lithium batteries are 60% lighter than sealed lead acid batteries, making installing and moving the batteries easier and faster.