

# CANBAT



Model: CLI100-12LT | Voltage: 12.8V | Capacity: 100Ah | Energy: 1280Wh | Group 27

## ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Parallel or Series	4

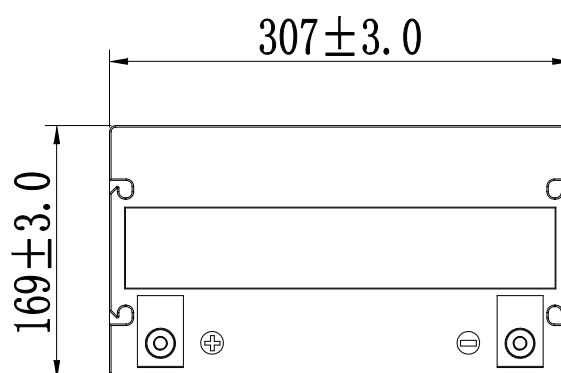
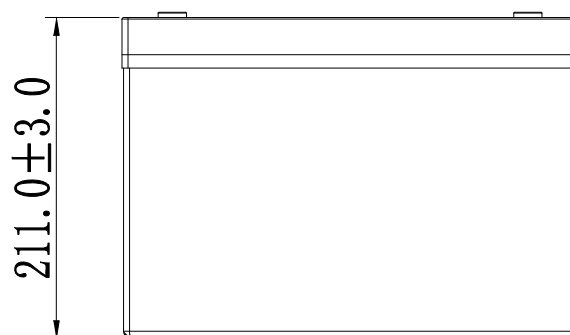
## CHARGING CHARACTERISTICS

Recommended Charge Current	≤ 50 A
Maximum Charge Current	100 Ah
Floating Charge Voltage	13.8 ±0.2 V
Maximum Charge Voltage	14.6 ±0.2 V
Recommended Charge Voltage (Single Unit)	14.4 V - 14.6 V
BMS Charge Voltage Cut-Off	14.8 V
Reconnect Voltage	14.4 V
Balancing Voltage	13.6 V ± 0.2 V

## DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	350 A For 3 S
Recommended Low Voltage Disconnect	10 V ± 0.04 V
BMS Discharge Voltage Cut-Off	10 V ± 0.2 V
Reconnect Voltage	11.2 V ± 0.04 V
Short Circuit Protection	200-600 μs

## DIMENSIONAL SPECIFICATIONS



## TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20 to 60 °C ( -4 to 140 °F )
Charge Temperature*	-20 to 60 °C ( -4 to 140 °F )
Recommended Storage Temperature	-5 to 35 °C ( 23 to 95 °F )
BMS High Temperature Cut-Off	65 °C ( 149 °F )
Reconnect Temperature	50 °C ( 122 °F )

BUILT-IN HEATER POWER DRAW: 60W

## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	12.09 x 6.65 x 8.31" 307 x 169 x 211 mm
Weight	26 lbs (11.79 kg)
Terminal / Thread Pitch	M8 / 1.25
Bolt Length / Thread Depth	12mm / 10mm
Case Material / Torque	ABS / 80-100 in-lbs (9-11 N-m)
IP Rating	IP55
Cell Type - Chemistry	Prismatic - LiFePO4

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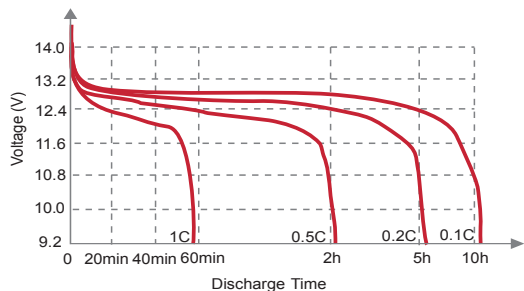


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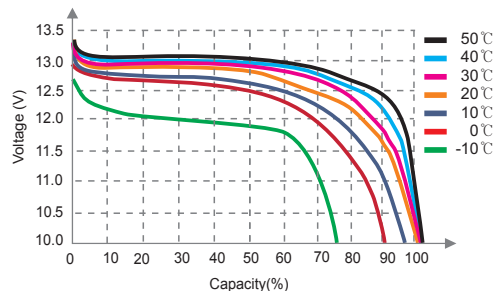


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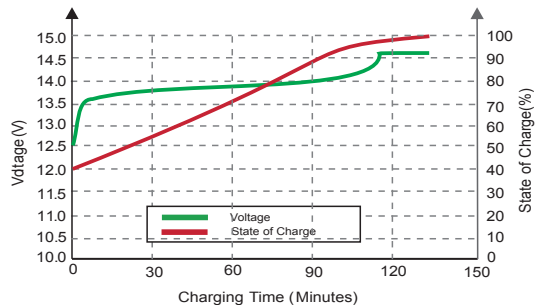
### DIFFERENT RATE DISCHARGE CURVE (25°C)



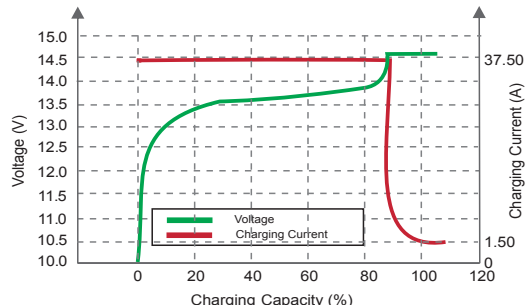
### DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)



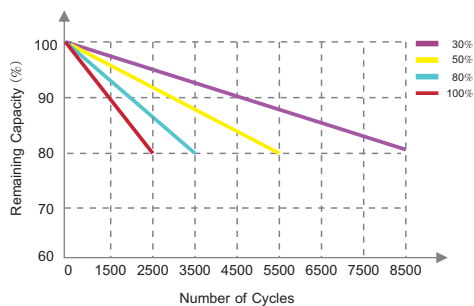
### STATE OF CHARGE CURVE (0.5C, 25°C)



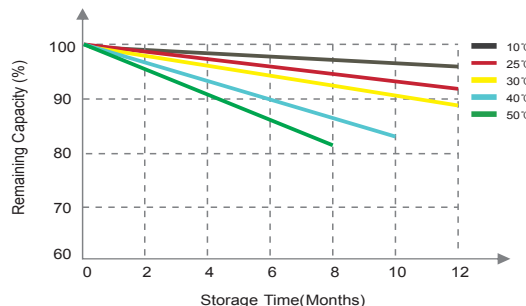
### CHARGING CHARACTERISTICS (0.5C, 25°C)



### DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



### DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



## FEATURE LIFEPO4 BATTERY



#### MORE CAPACITY :

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



#### MINIMAL SELF-DISCHARGE :

Less than 3% self-discharge per month, which provides you more power when you need it.



#### EASY INSTALLATION :

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



#### LIGHTWEIGHT :

Lithium iron batteries are 60% lighter than lead-acid batteries, allowing for simple installation and transportation.



#### INCREASED FLEXIBILITY :

Install up to 4 lithium LiFePO4 batteries in series to increase overall voltage or up to 4 in parallel to increase amperage.



#### HIGH DISCHARGE RATE :

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



#### INTELLIGENT BMS :

The battery management system monitors and adapts to battery conditions to maximize performance and safety.



#### FASTER CHARGING :

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



#### LONG CYCLE LIFE :

More than 2,500 cycles at a depth of discharge of 100% and a warranty of 10 years on all lithium batteries.