

CANBAT

Model: CLI100-12 | 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

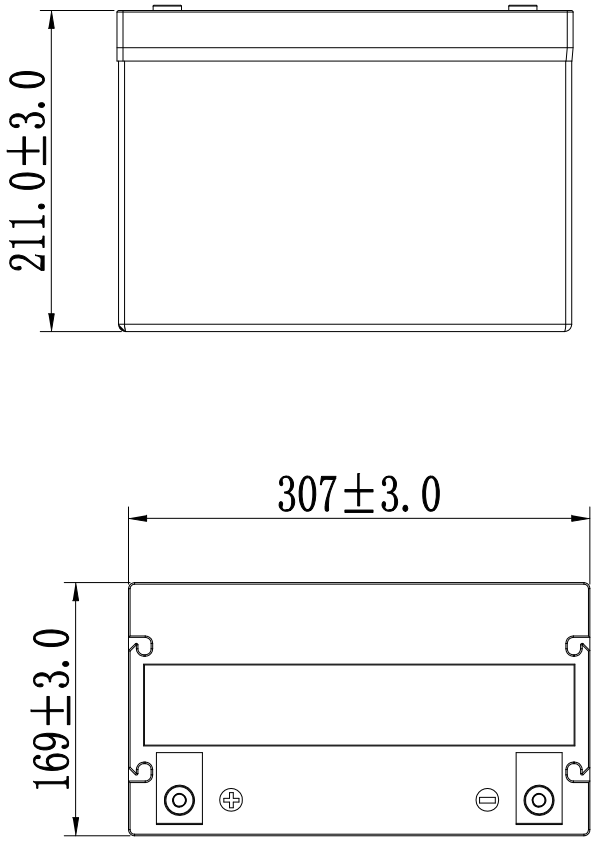
CHARGING CHARACTERISTICS

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 ºC (-4 to 140 º F)
Charge Temperature*	0 to 45 ºC (32 to 113 º F)
Recommended Storage Temperature	-5 to 35 ºC (23 to 95 º F)
BMS High Temperature Cut-Off	65 ºC (149 º F)
Reconnect Temperature	50 ºC (122 º F)

*32°F = 0°C

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	12.09 x 6.65 x 8.31” 307 x 169 x 211 mm
Weight	26.7 lbs (12.11 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

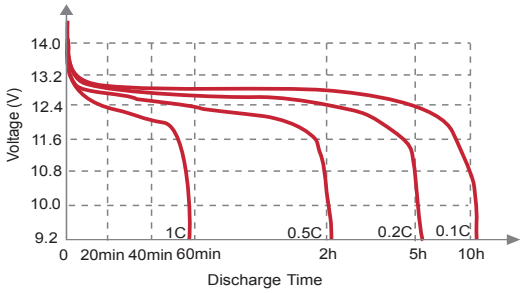
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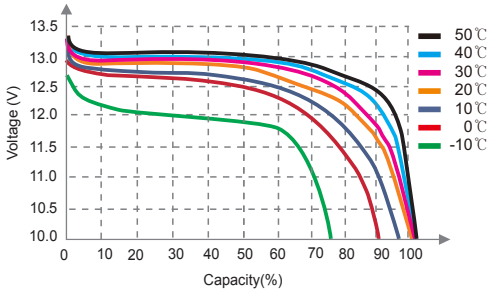
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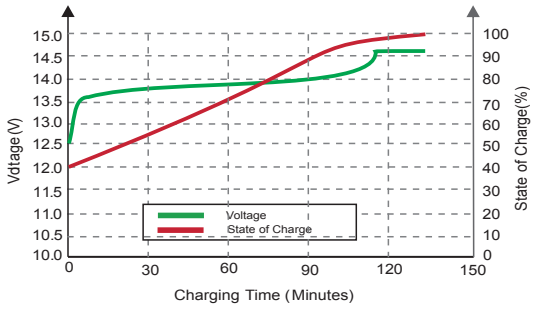
DIFFERENT RATE DISCHARGE CURVE (25°C)



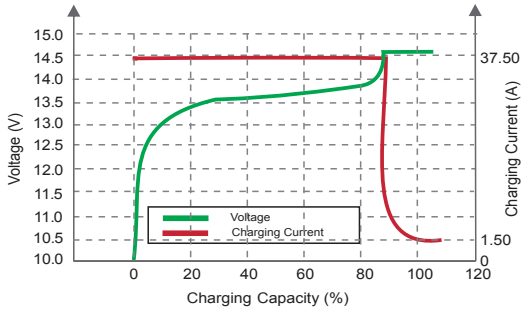
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)



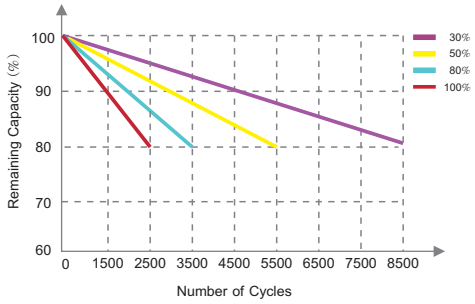
STATE OF CHARGE CURVE (0.5C, 25°C)



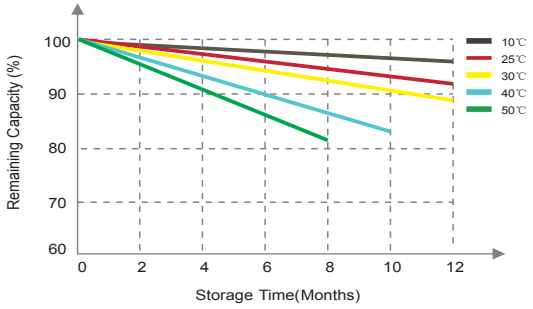
CHARGING CHARACTERISTICS (0.5C, 25°C)



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.

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

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

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

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

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

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

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

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.

UN38.3 CE