



CANBAT

Model: CLI20-12 | Voltage: 12.8V | Capacity: 20Ah | Energy: 256Wh

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	20 Ah
Capacity @ 25A	48 min
Resistance	$\leq 30 \text{ m}\Omega$ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Parallel or Series	4

CHARGING CHARACTERISTICS

Recommended Charge Current	$\leq 10 \text{ A}$
Maximum Charge Current	20 Ah
Floating Charge Voltage	$13.8 \pm 0.2 \text{ V}$
Maximum Charge Voltage	$14.6 \pm 0.2 \text{ V}$
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	$13.6 \text{ V} \pm 0.2 \text{ V}$

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	20 A
Peak Discharge Current	80 A For 3 S
Recommended Low Voltage Disconnect	$10 \text{ V} \pm 0.04 \text{ V}$
BMS Discharge Voltage Cut-Off	$10 \text{ V} \pm 0.2 \text{ V}$
Reconnect Voltage	$11.2 \text{ V} \pm 0.04 \text{ V}$
Short Circuit Protection	200-600 μs

TEMPERATURE SPECIFICATIONS

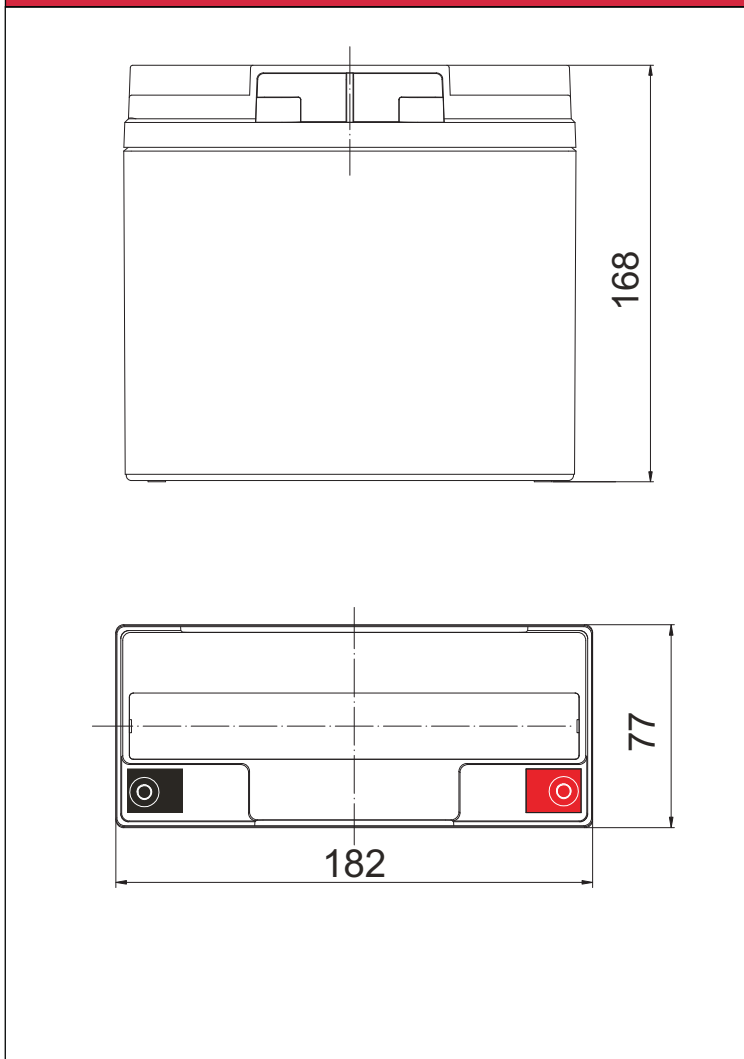
Discharge Temperature	-20 to 60 °C (-4 to 140 °F)
Charge Temperature*	0 to 45 °C (32 to 113 °F)
Recommended Storage Temperature	-5 to 35 °C (23 to 95 °F)
BMS High Temperature Cut-Off	65 °C (149 °F)
Reconnect Temperature	50 °C (122 °F)

*32°F = 0°C

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	7.17 x 3.03 x 6.61" 182 x 77 x 168 mm
Weight	5.5 lbs (2.49 kg)
Terminal / Thread Pitch	M6 / 1
Bolt Length / Thread Depth	12mm / 10mm
Case Material / Torque	ABS / 35-44 in-lbs (4-5 N-m)
IP Rating	IP55
Cell Type - Chemistry	Cylindrical - LiFePO4

DIMENSIONAL SPECIFICATIONS



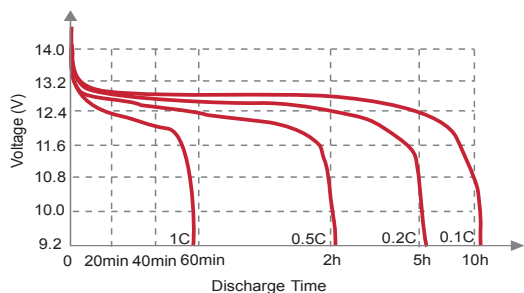
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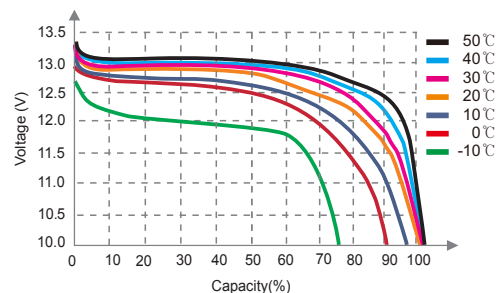
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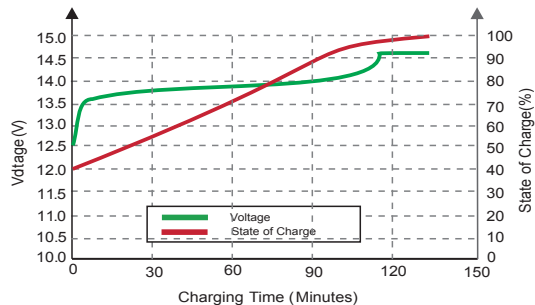
DIFFERENT RATE DISCHARGE CURVE (25°C)



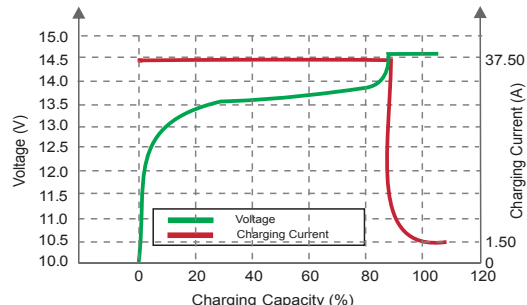
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)



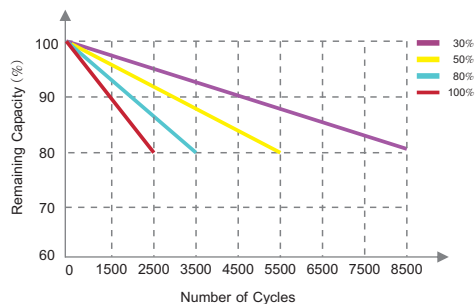
STATE OF CHARGE CURVE (0.5C, 25°C)



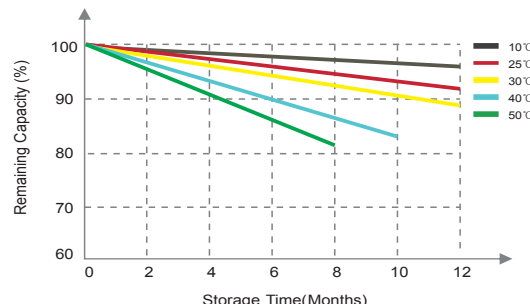
CHARGING CHARACTERISTICS (0.5C, 25°C)



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.