

# CLC170-12FT

12V 170AH

Pure Lead Carbon

# CANBAT

## CLC170-12FT



## Physical Specification

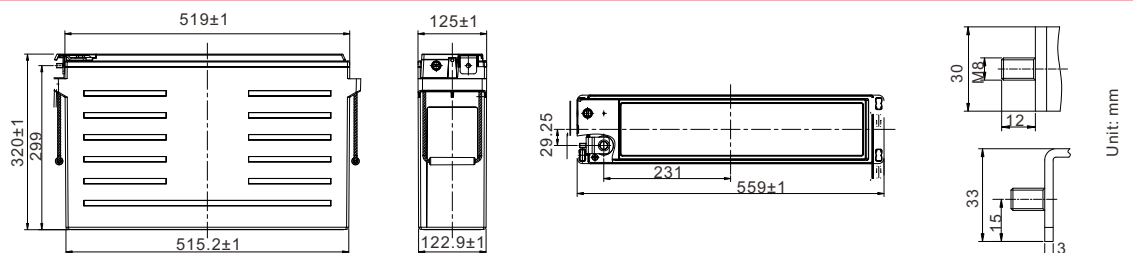
Part Number:	CLC170-12FT
Length:	559 ± 2 mm (22.01 inches)
Width:	125 ± 2 mm (4.92 inches)
Container Height:	320 ± 2 mm (12.60 inches)
Total Height (with terminal):	320 ± 2 mm (12.60 inches)
Approx Weight:	54.2 kg (119.5 lbs)

## Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	170AH
Terminal Type	Standard Terminal	M8
	Optional Terminal	M6
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	Non-halogenated, thermally sealed PPOI plastic casing & cover
Rated Capacity(35°)	170.0Ah	(C10 to 1.80VDC @ 25°C)
	170.4Ah	(C8 to 1.75VDC @ 25°C)
	166.5Ah	(C5 to 1.75VDC @ 25°C)
	135.9Ah	(C3 to 1.75VDC @ 25°C)
Max Charge Current (A)	51.0A	
Max Discharge Current	2040A	
Internal Resistance	Approx 3.2mΩ @ 25°C @ 1Khz	
Discharge Characteristics	Operating Temp. Range	Discharge: -40 ~ 65°C
		Charge: 0 ~ 40°C
		Storage: -20 ~ 40°C
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Life	Exceptional PSoC cyclic performance 2500+ cycles at 50% Depth of Discharge (DoD)
	Features	Lead carbon added to negative electrodes increases power and reduces sulfation, leak-proof operation
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	79%
Design Floating Life at 20°C	20+ Years	
Self Discharge	Canbat Pure Lead Carbon Batteries may be stored for up to 24 months at 25°C (°77F). For higher temperatures, the time interval will be shorter. A refresh charge is required when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.	

## Dimensions

### M8 Terminal



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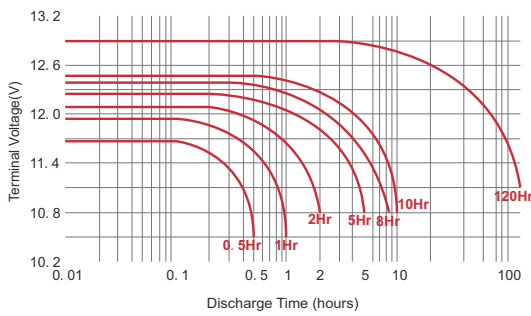
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	246.9	212.2	185.3	144.2	110.6	98.6	57.0	42.5	35.7	31.6	20.2	16.8	8.67
1.80V/cell	272.3	233.8	200.9	154.9	117.9	103.7	59.5	44.2	37.0	32.6	20.8	17.0	8.76
1.75V/cell	294.9	249.9	212.9	161.9	122.6	108.8	61.2	45.3	38.3	33.3	21.3	17.3	8.84
1.70V/cell	313.6	263.7	223.0	167.7	126.4	112.2	62.9	46.5	39.1	33.7	21.7	17.7	8.93
1.67V/cell	322.6	270.6	228.0	170.5	128.2	115.6	64.6	47.6	40.0	34.0	22.1	17.9	9.01
1.60V/cell	336.0	281.3	235.7	174.9	130.9	119.0	65.5	48.2	40.4	34.7	22.3	18.0	9.10

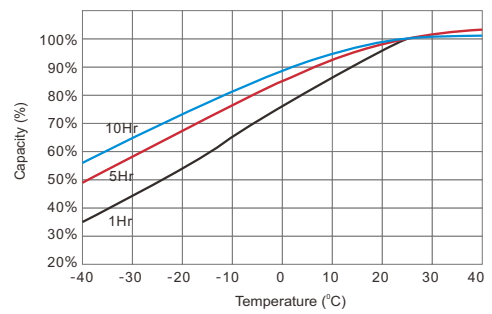
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	482.6	409.8	358.4	281.3	217.3	196.4	119.6	94.7	77.0	64.1	42.8	35.0	18.8
1.80V/cell	522.9	444.9	388.4	302.6	232.6	200.6	125.7	96.8	78.9	65.7	43.9	36.1	19.3
1.75V/cell	559.0	466.1	406.6	313.2	239.6	204.7	128.7	98.0	79.8	66.5	44.5	36.2	19.6
1.70V/cell	589.6	483.4	420.7	321.4	245.0	208.5	130.6	98.9	80.4	66.9	44.6	36.3	19.7
1.67V/cell	604.7	491.5	426.5	325.1	247.6	213.4	131.2	99.1	80.6	67.1	44.8	36.4	19.7
1.60V/cell	629.7	500.5	430.7	327.4	248.4	214.2	131.6	99.2	80.9	67.3	44.9	36.6	19.8

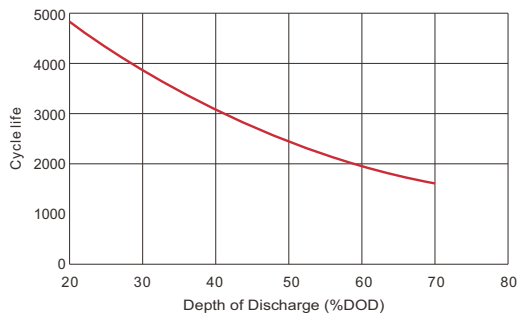
### Discharge Characteristics



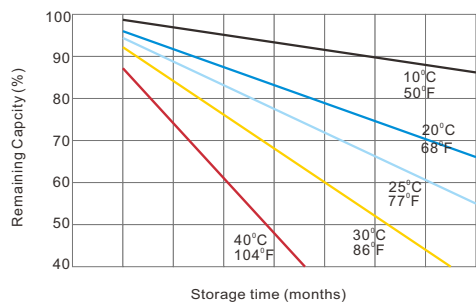
### Temperature in Relation to Capacity



### Cycle Life vs. Depth of Discharge



### Self-discharge Characteristics



### Features of Canbat Carbon Technology

- Exceptional PSoc cyclic performance 2500 cycles @50% DoD with a design life of 12+ years at 20°C (68°F)
- High modulus Polyphenylene Oxide (PPO) plastic, materials designed to withstand extended elevated operating temperatures.
- Flame retardant (UL 94 VO) and LOI of at least 28%
- Lead carbon added to negative electrodes increases power and reduces sulfation
- High potential fuel savings when used with hybrid genset applications
- Operating temperature range -40°C to +65°C (-40°F to 149°F)
- State-of-the-art automated manufacturing ensures consistency and reliability
- Advanced 3 stage terminal design to ensure leak-free operation - brass terminals provide maximum performance
- Non-halogenated thermally sealed plastic casing