

# CLC210-12FT

12V 210AH

Pure Lead Carbon

# CANBAT

## CLC210-12FT



## Physical Specification

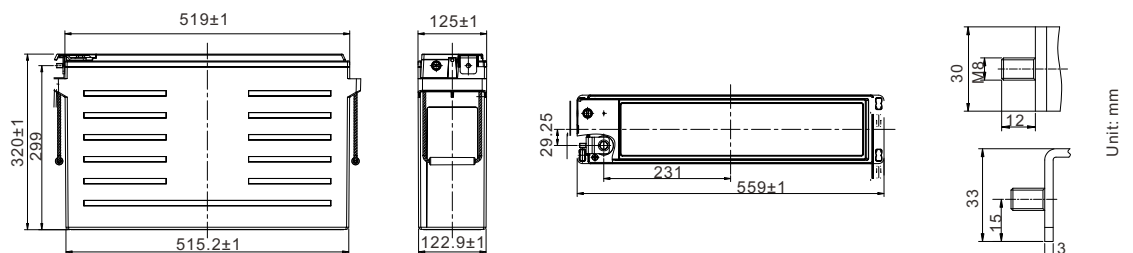
Part Number:	CLC210-12FT
Length:	559 ± 2 mm (22.01 inches)
Width:	125 ± 2 mm (4.92 inches)
Container Height:	328 ± 2 mm (12.91 inches)
Total Height (with terminal):	328 ± 2 mm (12.91 inches)
Approx Weight:	60.5 kg (133.4 lbs)

## Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	210AH
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°)	210.0Ah	(C10 to 1.80VDC @ 25°C)
	210.0Ah	(C8 to 1.75VDC @ 25°C)
	196.5Ah	(C5 to 1.75VDC @ 25°C)
	173.7h	(C3 to 1.75VDC @ 25°C)
Max Charge Current (A)	63.0A	
Max Discharge Current	2520A	
Internal Resistance	Approx 2.6mΩ @ 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 (77°F). 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



To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website [www.canbat.com](http://www.canbat.com). Canbat Technologies Inc. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.E

# CLC210-12FT

12V 210AH

Pure Lead Carbon



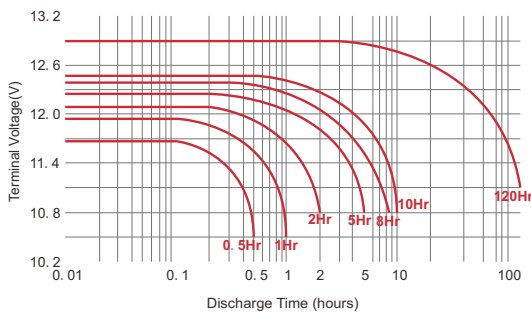
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	352.8	294.0	264.6	205.8	157.8	128.8	76.6	55.0	45.4	37.5	25.0	20.4	10.7
1.80V/cell	390.6	319.2	283.5	218.2	166.5	135.4	79.5	56.9	47.0	38.7	25.8	21.0	10.8
1.75V/cell	415.8	336.0	296.1	227.9	172.2	139.7	81.2	57.9	47.9	39.3	26.3	21.3	10.8
1.70V/cell	441.0	352.8	308.7	236.1	177.1	142.9	82.4	58.7	48.3	39.8	26.5	21.6	10.9
1.67V/cell	466.2	369.6	321.3	240.2	179.4	144.3	83.1	59.0	48.6	40.0	26.7	21.8	11.0
1.60V/cell	491.4	378.0	327.6	245.8	182.2	146.4	83.6	59.3	48.9	40.2	26.8	21.8	11.1

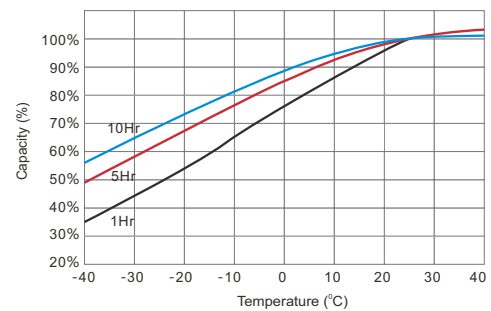
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	627.4	501.9	453.7	357.1	278.8	238.4	131.7	96.2	81.6	68.6	49.7	41.0	21.5
1.80V/cell	693.8	545.2	488.2	372.6	286.3	239.5	134.2	96.4	82.6	69.0	50.1	41.3	21.7
1.75V/cell	719.3	570.9	509.8	385.3	293.6	240.6	136.6	96.5	83.6	69.1	50.5	41.6	21.8
1.70V/cell	748.7	595.7	528.2	396.3	300.5	245.5	138.9	96.6	84.5	69.2	50.8	41.9	21.9
1.67V/cell	790.7	623.0	537.3	401.4	303.5	247.6	141.8	97.2	84.9	69.5	50.9	42.3	22.0
1.60V/cell	799.7	627.2	541.0	407.5	306.3	249.3	142.1	98.0	85.1	69.8	51.0	42.7	22.1

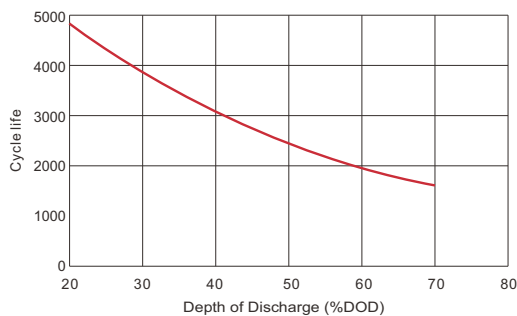
### Discharge Characteristics



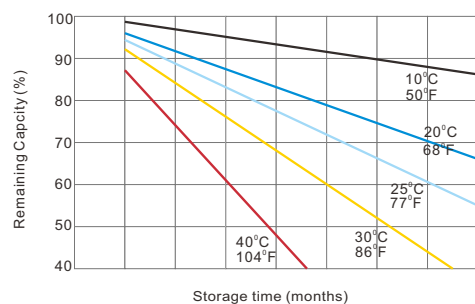
### Temperature in Relation to Capacity



### 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