

CLC110-12FT

12V 110AH

Pure Lead Carbon

CANBAT

CLC110-12FT



Physical Specification

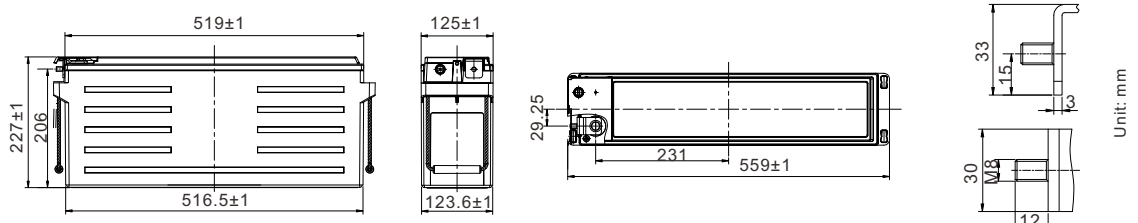
Part Number:	CLC110-12FT
Length:	559 ± 2 mm (22.01 inches)
Width:	125 ± 2 mm (4.92 inches)
Container Height:	227 ± 2 mm (8.94 inches)
Total Height (with terminal):	227 ± 2 mm (8.94 inches)
Approx Weight:	36.5 kg (80.5 lbs)

Specifications

	Nominal Voltage	12V	
	Nominal Capacity (10HR)	110AH	
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°)	110Ah	(C10 to 1.80VDC @ 25°C)	
	110Ah	(C8 to 1.75VDC @ 25°C)	
	103.5Ah	(C5 to 1.75VDC @ 25°C)	
	95.1Ah	(C3 to 1.75VDC @ 25°C)	
Max Charge Current (A)	33.0A		
Max Discharge Current	1320A		
Internal Resistance	Approx 4.0mΩ @ 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



To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website 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

CLC110-12FT

12V 110AH

Pure Lead Carbon



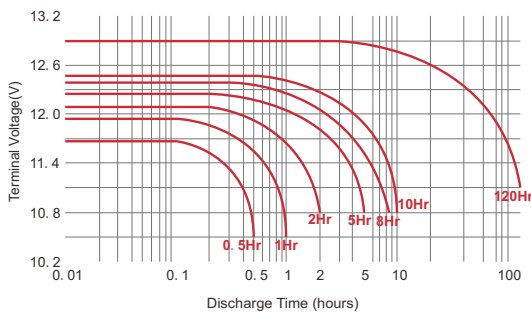
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	210.0	172.9	147.9	115.8	88.4	72.0	42.2	30.2	24.3	20.0	13.3	10.8	5.82
1.80V/cell	233.2	189.4	160.4	124.0	93.4	75.6	43.5	31.0	24.8	20.4	13.5	11.0	5.95
1.75V/cell	254.8	204.3	171.4	130.9	97.7	78.4	44.7	31.7	25.2	20.7	13.8	11.2	6.07
1.70V/cell	274.2	217.0	180.7	136.7	101.1	80.6	45.6	32.0	25.5	21.0	13.9	11.3	6.16
1.67V/cell	284.5	223.4	185.2	139.3	102.7	81.7	45.9	32.2	25.7	21.1	14.0	11.3	6.19
1.60V/cell	303.3	234.2	192.2	143.2	104.7	83.2	46.5	32.7	26.1	21.3	14.2	11.6	6.25

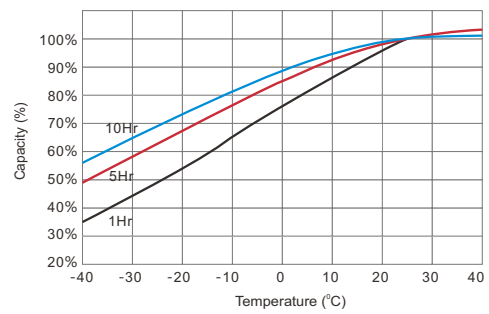
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	397.7	326.5	280.8	217.6	170.5	139.6	82.6	59.4	47.9	39.7	26.3	21.5	11.6
1.80V/cell	434.9	352.7	304.9	236.1	181.2	147.2	85.9	60.7	48.8	40.2	26.7	21.8	11.8
1.75V/cell	469.0	376.1	322.7	247.8	188.3	152.1	87.9	61.7	49.6	40.8	27.0	22.1	12.0
1.70V/cell	498.5	395.7	337.3	255.8	193.7	156.0	89.3	62.6	50.0	41.3	27.2	22.4	12.1
1.67V/cell	513.6	405.2	344.2	260.6	196.3	157.6	90.0	63.0	50.3	41.5	27.3	22.5	12.2
1.60V/cell	540.0	420.4	354.6	266.6	199.5	159.7	90.9	63.5	50.8	41.8	27.5	23.1	12.3

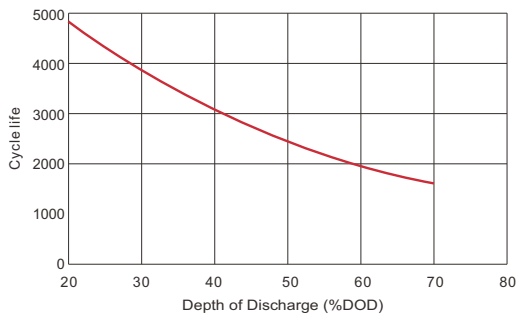
Discharge Characteristics



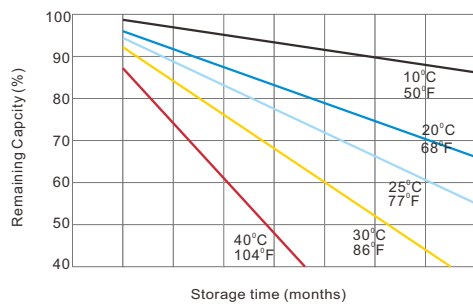
Temperature in Relation to Capacity



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