

CLC150-12FT

12V 150AH

Pure Lead Carbon

CANBAT

CLC150-12FT



Physical Specification

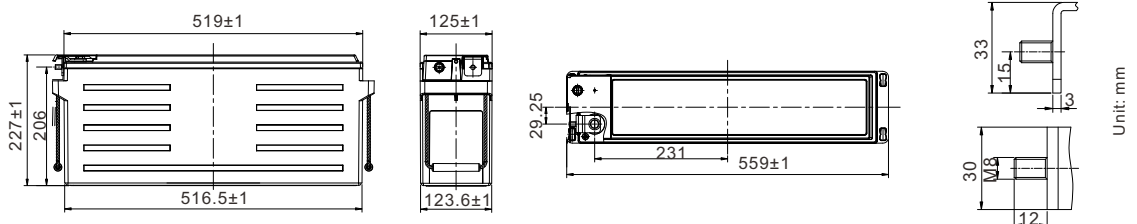
Part Number:	CLC150-12FT
Length:	559 ± 2 mm (22.01 inches)
Width:	125 ± 2 mm (4.92 inches)
Container Height:	227 ± 2 mm (10.91 inches)
Total Height (with terminal):	227 ± 2 mm (10.91 inches)
Approx Weight:	48.0 kg (105.8 lbs)

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	150AH
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°)	150Ah	(C10 to 1.80VDC @ 25°C)
	150Ah	(C8 to 1.75VDC @ 25°C)
	145.5Ah	(C5 to 1.75VDC @ 25°C)
	131.7Ah	(C3 to 1.75VDC @ 25°C)
Max Charge Current (A)	45.0A	
Max Discharge Current	1800A	
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



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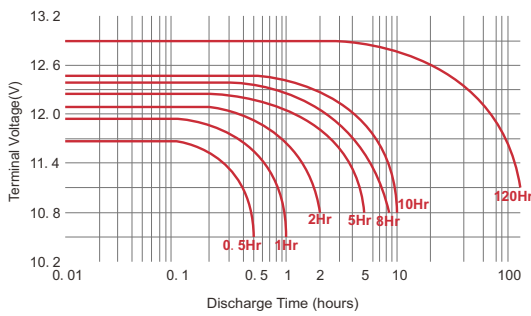
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	236.0	190.7	165.2	136.6	110.0	94.5	56.5	41.7	32.6	27.7	17.9	14.7	7.65
1.80V/cell	260.9	208.0	177.2	145.1	116.0	99.0	58.6	43.1	33.7	28.5	18.5	15.0	7.80
1.75V/cell	282.1	222.0	187.5	151.6	120.0	102.0	59.9	43.9	34.3	29.1	18.8	15.3	7.88
1.70V/cell	298.7	234.1	196.1	157.1	124.0	105.0	60.9	44.5	34.6	29.4	19.0	15.5	7.91
1.67V/cell	306.7	240.0	200.4	159.8	128.0	106.8	61.3	44.7	34.9	29.6	19.1	15.6	7.95
1.60V/cell	318.0	249.8	207.2	163.6	132.0	108.8	61.8	44.9	35.0	29.8	19.2	15.6	7.98

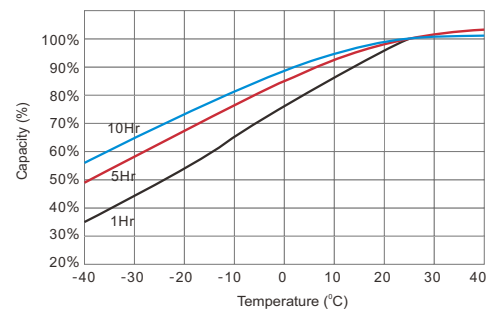
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	472.9	380.6	331.0	276.7	220.2	185.2	115.3	84.7	66.3	56.2	35.9	29.7	15.8
1.80V/cell	512.4	405.9	354.3	292.9	230.2	194.7	119.4	86.5	67.5	57.3	36.4	29.8	16.1
1.75V/cell	547.7	428.2	370.7	303.7	236.5	198.1	121.6	87.9	68.5	58.1	37.0	30.8	16.3
1.70V/cell	577.7	446.6	384.2	312.3	241.0	201.3	123.2	88.8	69.3	58.7	37.4	31.1	16.6
1.67V/cell	592.5	455.5	390.8	316.4	243.6	202.2	123.9	89.2	69.6	58.9	37.6	31.3	16.7
1.60V/cell	616.9	469.8	400.8	322.4	246.4	203.3	124.7	89.7	70.0	59.3	37.8	32.0	16.8

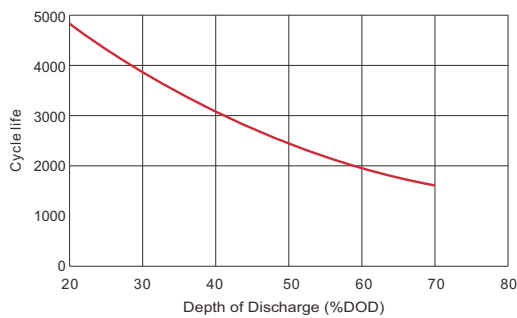
Discharge Characteristics



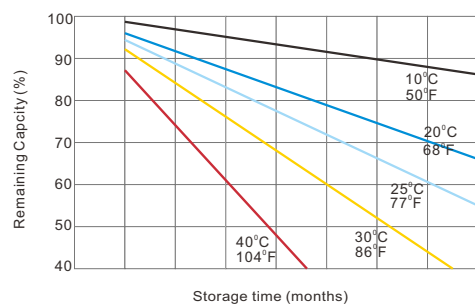
Temperature in Relation to Capacity



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