

CLC100-12FT

12V 100AH

Pure Lead Carbon

CANBAT

CLC100-12FT



Physical Specification

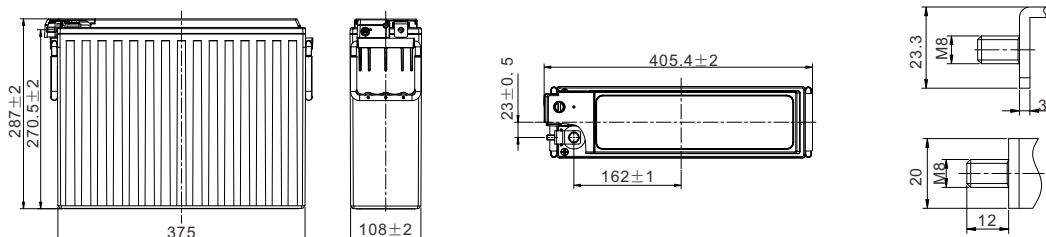
Part Number:	CLC100-12FT
Length:	405 ± 2 mm (15.96 inches)
Width:	108 ± 2 mm (4.25 inches)
Container Height:	287 ± 2 mm (11.30 inches)
Total Height (with terminal):	287 ± 2 mm (11.30 inches)
Approx Weight:	30.8 kg (67.9 lbs)

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	100AH
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°)	100Ah	(C10 to 1.80VDC @ 25°C)
	100Ah	(C8 to 1.75VDC @ 25°C)
	94.5Ah	(C5 to 1.75VDC @ 25°C)
	84.0Ah	(C3 to 1.75VDC @ 25°C)
Max Charge Current (A)	30.0A	
Max Discharge Current	1200A	
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 (°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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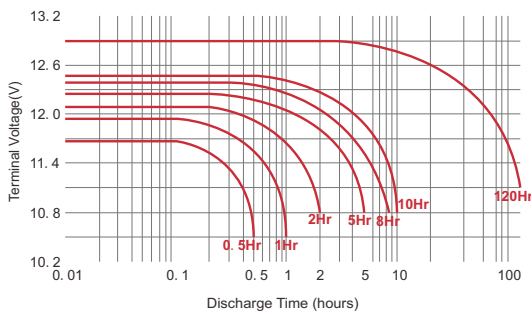
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	185.9	153.1	131.0	102.5	78.2	63.8	37.4	26.7	21.0	18.3	12.1	9.90	5.31
1.80V/cell	206.4	167.6	142.0	109.8	82.7	66.9	38.5	27.4	21.4	18.6	12.3	10.0	5.43
1.75V/cell	225.6	180.8	151.7	115.9	86.5	69.4	39.6	28.0	21.7	18.9	12.5	10.2	5.54
1.70V/cell	242.7	192.1	160.0	120.9	89.6	71.4	40.3	28.3	22.0	19.2	12.7	10.3	5.62
1.67V/cell	251.9	197.8	163.9	123.3	90.9	72.4	40.6	28.5	22.2	19.3	12.8	10.3	5.65
1.60V/cell	268.5	207.3	170.2	126.7	92.7	73.6	41.2	28.9	22.5	19.5	12.9	10.5	5.70

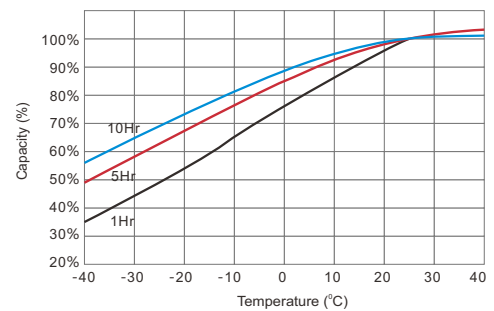
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	358.5	286.8	251.0	192.6	150.9	123.5	73.2	52.6	41.3	36.1	24.0	19.7	10.5
1.80V/cell	401.2	314.7	271.4	204.5	157.3	130.3	76.1	53.7	42.1	36.6	24.3	19.9	10.8
1.75V/cell	431.1	334.0	285.4	213.6	160.5	134.7	77.8	54.7	42.7	37.2	24.6	20.2	11.0
1.70V/cell	448.5	345.0	293.3	218.5	163.6	138.1	79.1	55.4	43.2	37.7	24.9	20.4	11.1
1.67V/cell	467.8	357.5	302.4	224.4	167.3	139.6	79.7	55.7	43.5	37.9	25.0	20.5	11.2
1.60V/cell	481.6	365.9	308.0	227.7	169.2	141.4	80.4	56.2	43.8	38.2	25.2	21.1	11.2

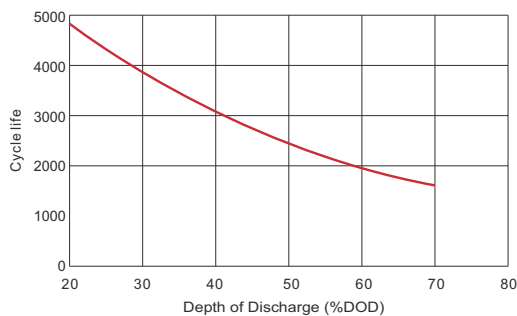
Discharge Characteristics



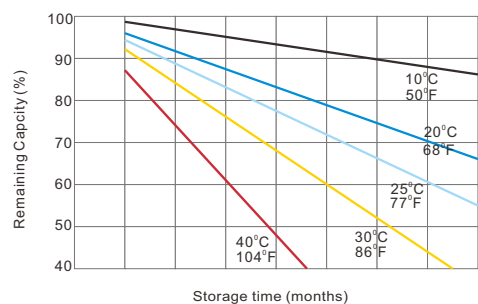
Temperature in Relation to Capacity



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