

CLC100-12

12V 100AH

Pure Lead Carbon

CANBAT

CLC100-12



Physical Specification

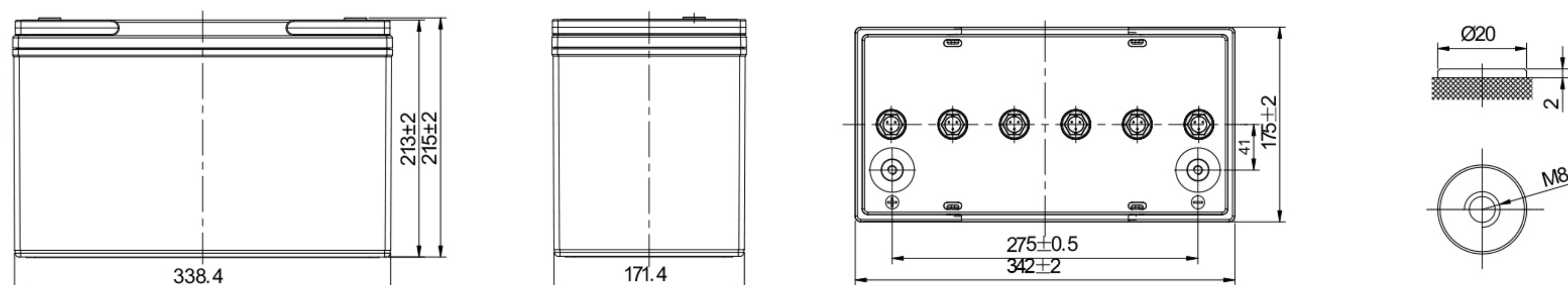
Part Number:	CLC100-12
Length:	342 ± 2 mm (13.40 inches)
Width:	175 ± 2 mm (6.89 inches)
Container Height:	213 ± 2 mm (8.39 inches)
Total Height (with terminal):	215 ± 2 mm (8.46 inches)
Approx Weight:	31.2 kg (68.8 lbs)

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°)	100.0Ah	(C10 to 1.80VDC @ 25°C)	
	100.4Ah	(C8 to 1.75VDC @ 25°C)	
	95.0Ah	(C5 to 1.75VDC @ 25°C)	
	83.1Ah	(C3 to 1.75VDC @ 25°C)	
Max Charge Current (A)	30.0A		
Max Discharge Current	1250A		
Internal Resistance	Approx 3.5mΩ @ 25°C @ 1Khz		
Discharge Characteristics	Operating Temp. Range	-40 ~ 65°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



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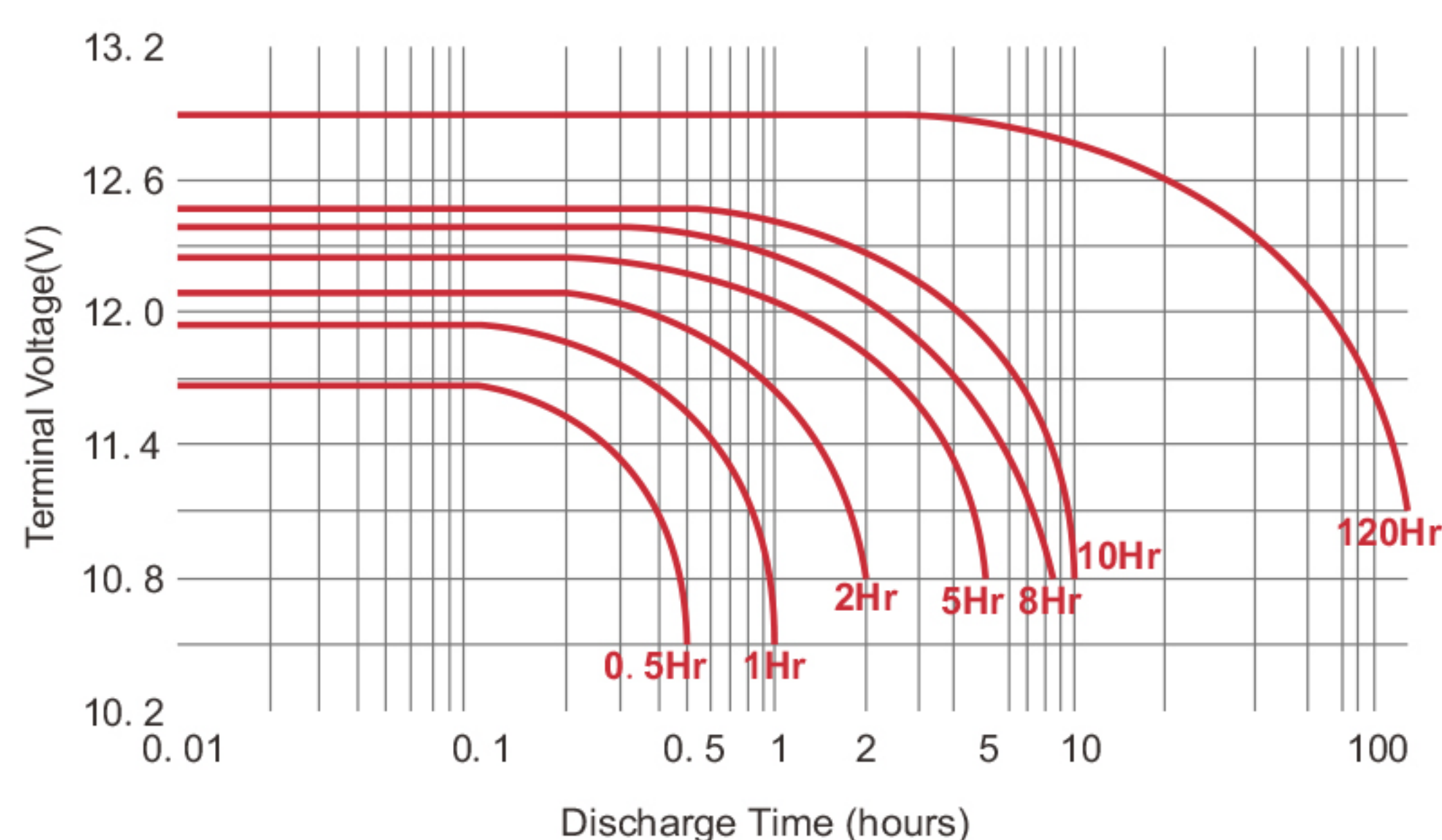
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	182.0	145.4	124.4	94.0	72.0	59.0	35.0	26.4	21.8	18.4	12.2	9.93	5.35
1.80V/cell	202.0	159.2	134.9	100.0	76.0	62.0	36.0	27.1	22.3	18.7	12.4	10.0	5.48
1.75V/cell	220.8	171.7	144.1	106.0	80.0	65.0	37.0	27.7	22.5	19.0	12.5	10.3	5.59
1.70V/cell	237.5	182.4	151.9	112.0	82.7	67.0	38.0	28.3	22.8	19.3	12.8	10.5	5.67
1.67V/cell	246.4	187.8	155.7	114.0	85.3	69.0	39.0	29.0	23.0	19.4	12.9	10.5	5.70
1.60V/cell	260.7	195.3	160.3	118.0	89.3	71.0	39.5	29.3	23.3	19.5	13.0	10.7	5.70

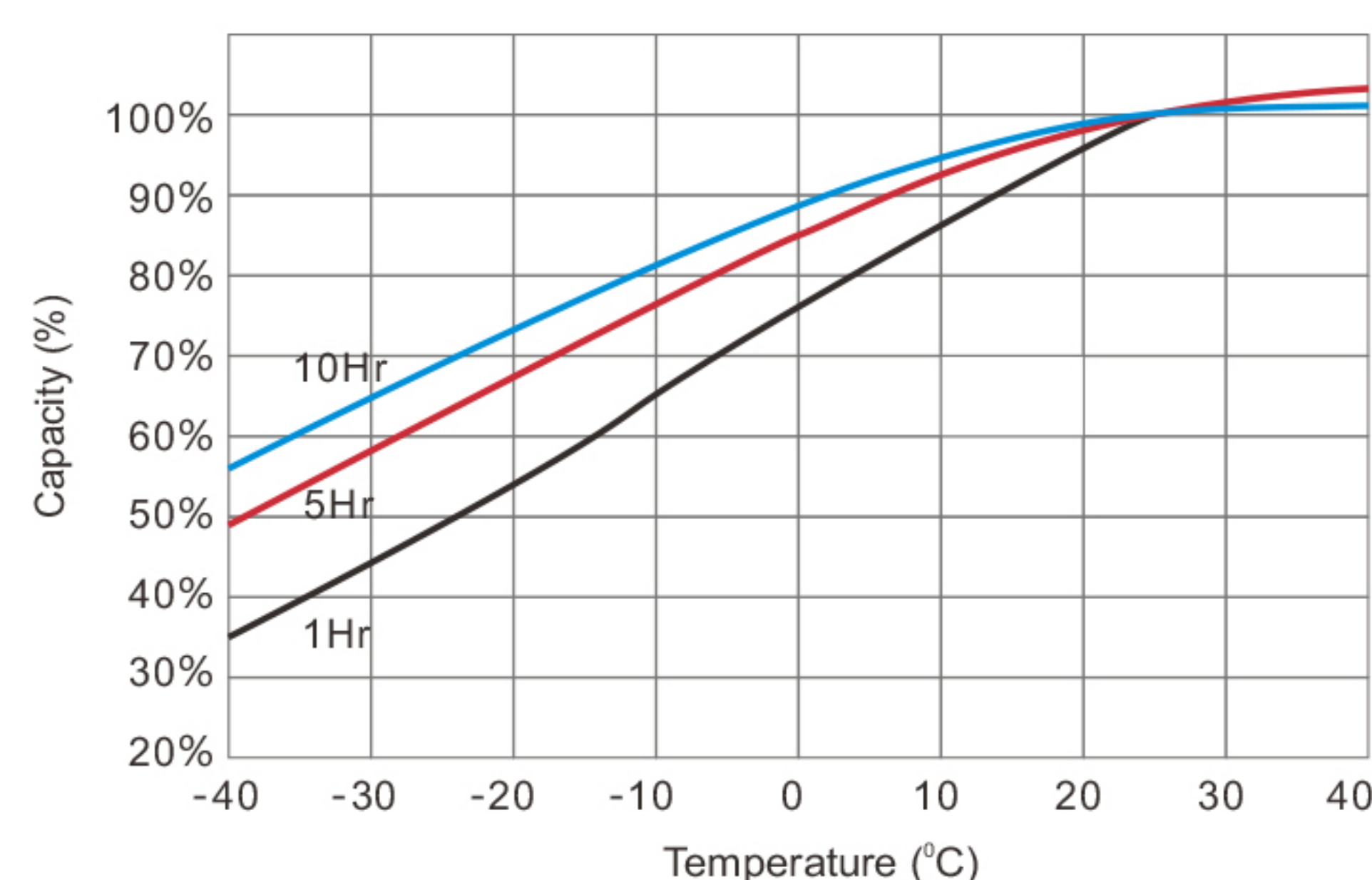
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	344.6	278.8	236.1	183.0	143.3	117.5	67.6	52.1	42.3	36.4	24.2	19.8	10.6
1.80V/cell	389.4	306.8	256.3	198.6	152.3	122.9	70.4	53.2	43.8	36.9	24.5	20.0	10.9
1.75V/cell	419.4	326.2	271.3	205.8	158.3	126.2	71.9	54.1	44.2	37.5	24.8	20.3	11.0
1.70V/cell	431.9	337.3	283.6	210.8	161.0	127.7	73.1	54.8	44.6	38.0	25.1	20.5	11.1
1.67V/cell	456.4	349.9	289.5	216.8	165.0	131.2	73.7	55.1	45.2	38.2	25.2	20.6	11.2
1.60V/cell	467.8	358.4	298.2	224.2	167.7	132.5	74.4	55.6	45.3	38.5	25.4	20.9	11.3

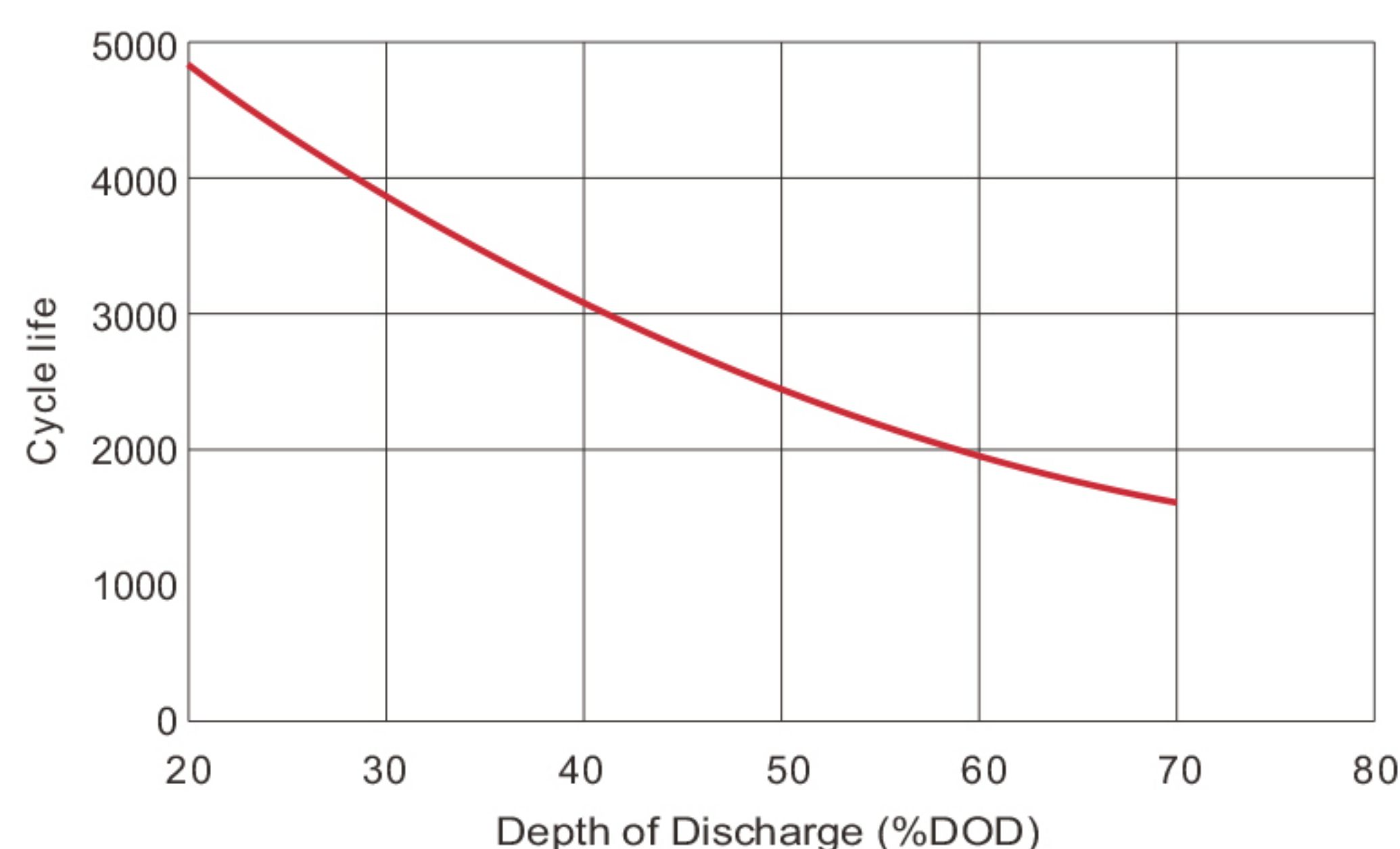
Discharge Characteristics



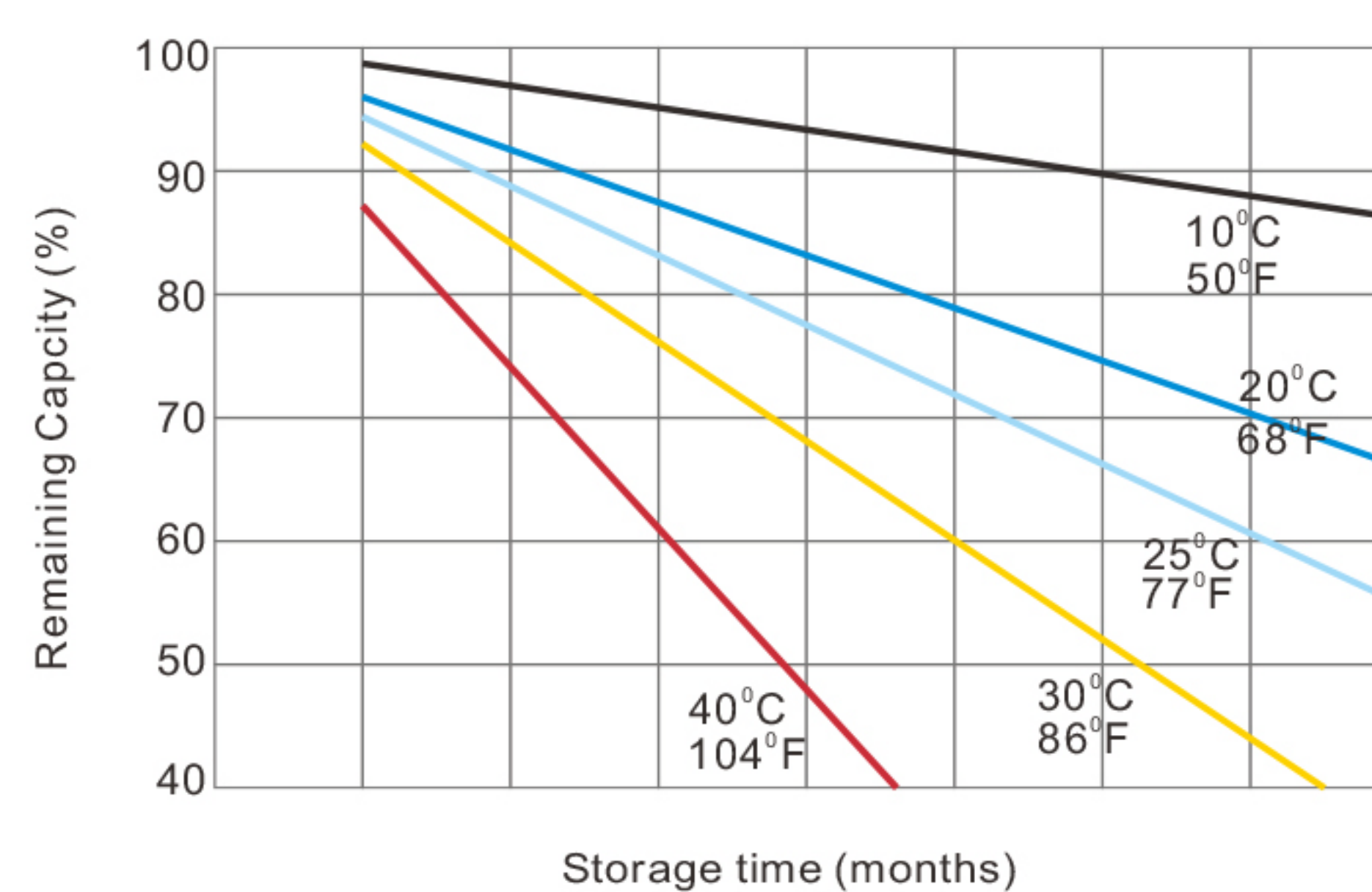
Temperature in Relation to Capacity



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