

CHT200-12FT

12V 200AH

High Temperature Battery

CANBAT

CHT200-12FT



Physical Specification

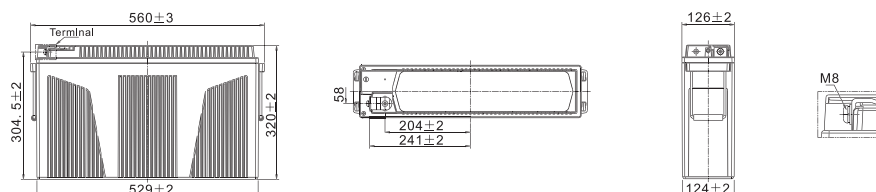
Part Number:	CHT200-12FT
Length:	560 ± 2 mm (22.05 inches)
Width:	126 ± 2 mm (4.96 inches)
Container Height:	320 ± 2 mm (12.60 inches)
Total Height (with terminal):	320 ± 2 mm (12.60 inches)
Approx Weight:	59.5 kg (131.18 lbs)

Specifications

	Nominal Voltage	12V
	Nominal Capacity (20HR)	200AH
Terminal Type	M8	
Container Material	Standard Option	ABS (High Temperature Resistant Material)
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity(35°)	C20(10.5A, 1.80V/cell)	210.0 Ah
	C10(20.0A, 1.80V/cell)	200.0 Ah
	C5(35.0A, 1.75V/cell)	175.0 Ah
	C3(53.0A, 1.75V/cell)	159.0 Ah
	C1(128.0A, 1.67V/cell)	128.0 Ah
Max Discharge Current	1600A (5s)	
Internal Resistance	Approx 6mΩ	
Discharge Characteristics	Operating Temp. Range	The battery can operate at temperatures of -40C ~ +65C. Extreme temperature can be up to 80C.
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 50A. Voltage 14.1V ~ 14.4V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 50A. Voltage 13.5V at 25°C (77°F) Temp. Coefficient -20mV/°C
	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	5 Years	
Self Discharge	Canbat High Temperature Batteries may be stored for up to 6 months at 25°C(77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

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

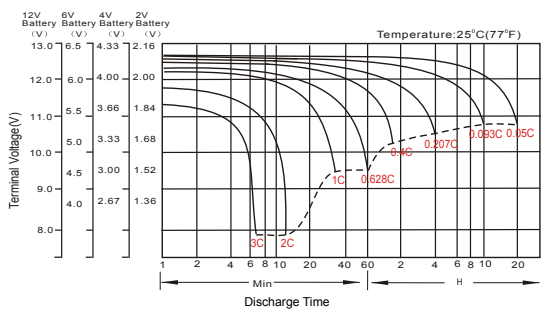
Constant Current Discharge (Amperes) at 35 °C (95°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	310.7	258.8	217.5	167.2	124.7	105.4	63.3	47.7	38.0	31.8	27.6	22.4	18.7	10.0
1.80V/cell	366.4	301.0	250.6	189.0	139.5	116.6	68.8	51.6	41.0	34.2	29.6	24.0	20.0	10.5
1.75V/cell	392.9	318.4	263.0	197.5	145.2	120.9	70.9	53.0	42.0	35.0	30.2	24.4	20.3	10.7
1.70V/cell	419.1	336.5	276.7	206.2	150.7	125.4	73.2	54.6	43.1	35.8	30.9	24.9	20.6	10.9
1.67V/cell	434.4	347.1	284.5	211.4	154.0	128.0	74.4	55.4	43.7	36.2	31.2	25.1	20.8	11.0
1.60V/cell	470.0	372.0	303.0	223.4	162.0	134.2	77.5	57.4	45.1	37.4	32.1	25.7	21.3	11.1

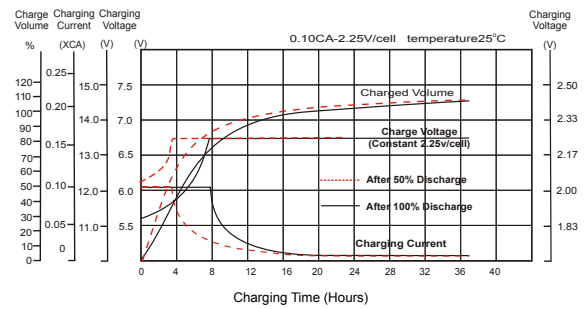
Constant Power Discharge (Watts/cell) at 35 °C (95°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	594.8	497.2	419.0	323.1	241.9	204.8	123.6	93.5	74.7	62.5	54.4	44.3	37.1	20.0
1.80V/cell	692.9	572.2	478.2	362.2	268.5	225.2	133.8	100.8	80.2	67.2	58.2	47.3	39.5	20.9
1.75V/cell	734.0	599.0	496.9	375.4	277.2	231.8	137.2	103.0	81.9	68.5	59.2	48.1	40.1	21.3
1.70V/cell	772.6	625.9	517.7	388.4	285.5	238.7	140.8	105.6	83.7	69.8	60.4	48.8	40.6	21.6
1.67V/cell	794.6	647.3	529.0	396.0	290.5	242.5	142.7	106.9	84.7	70.6	61.0	49.3	40.9	21.7
1.60V/cell	842.3	675.3	554.5	413.0	302.2	251.9	147.5	110.2	87.0	72.4	62.4	50.3	41.7	22.1

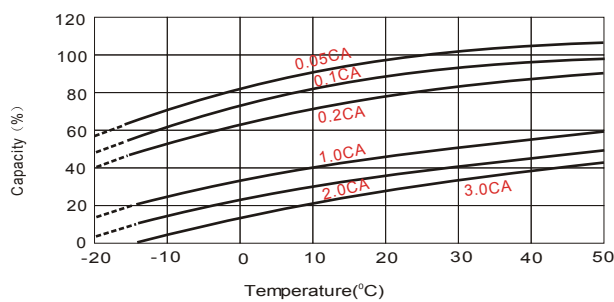
Discharge Characteristics



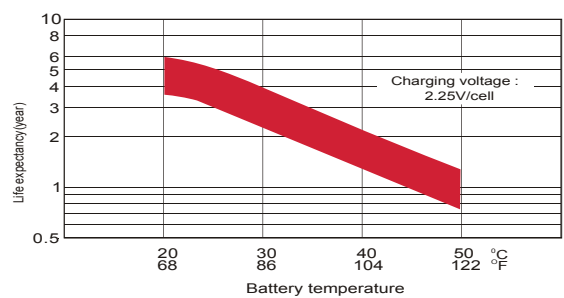
Float Charging Characteristics



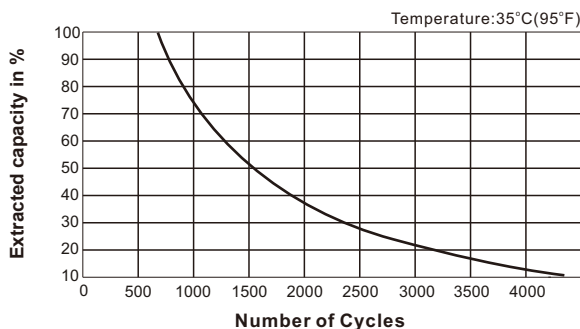
Temperature Effects in Relation to Battery Capacity



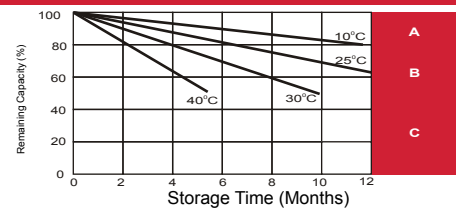
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- A** No supplementary required (Carryout supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.05CA and constant voltage 2.25V/cell.
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

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