

CHT100-12FT

12V 100AH

High Temperature Battery

CANBAT

CHT100-12FT



Physical Specification

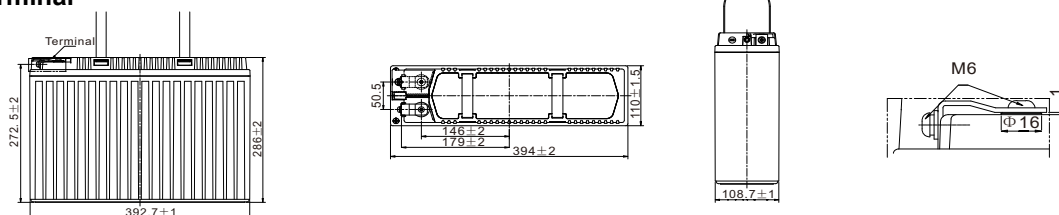
Part Number:	CHT100-12FT
Length:	394 ± 2 mm (15.51 inches)
Width:	110 ± 2 mm (4.33 inches)
Container Height:	286 ± 2 mm (11.26 inches)
Total Height (with terminal):	286 ± 2 mm (11.26 inches)
Approx Weight:	31.5 kg (69.45 lbs)

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	100AH
Terminal Type	M6	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity(35°)	C20(5.25A, 1.80V/cell)	104.0 Ah
	C10(10.0A, 1.80V/cell)	100.0 Ah
	C5(17.5A, 1.75V/cell)	87.5 Ah
	C3(26.5A, 1.75V/cell)	79.5 Ah
	C1(64.0A, 1.67V/cell)	64.0 Ah
Max Discharge Current	800A (5s)	
Internal Resistance	Approx 8mΩ	
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 25A. Voltage 14.1V ~ 14.4V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 25A. 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

M6 Terminal



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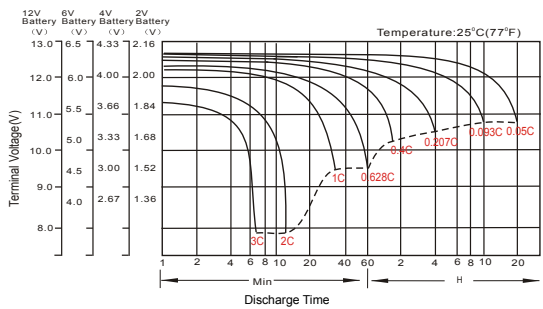
Constant Current Discharge (Amperes) at 35 °C (95°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	155.4	129.4	108.7	83.6	62.4	52.7	31.6	23.9	19.0	15.9	13.8	11.2	9.37	5.02
1.80V/cell	183.2	150.5	125.3	94.5	69.7	58.3	34.4	25.8	20.5	17.1	14.8	12.0	10.0	5.25
1.75V/cell	196.4	159.2	131.5	98.8	72.6	60.5	35.5	26.5	21.0	17.5	15.1	12.2	10.2	5.32
1.70V/cell	209.5	168.2	138.4	103.1	75.3	62.7	36.6	27.3	21.5	17.9	15.4	12.4	10.3	5.39
1.67V/cell	217.2	173.5	142.3	105.7	77.0	64.0	37.2	27.7	21.8	18.1	15.6	12.6	10.4	5.46
1.60V/cell	235.0	186.0	151.5	111.7	81.0	67.1	38.8	28.7	22.6	18.7	16.0	12.9	10.6	5.57

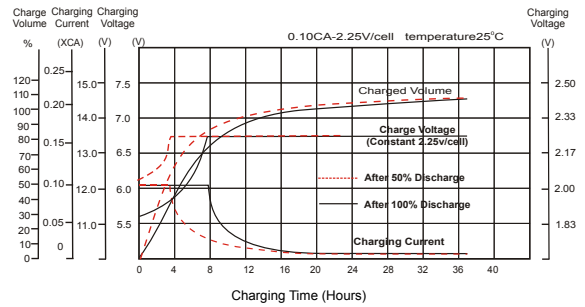
Constant Power Discharge (Watts/cell) at 35 °C (95°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	297.4	248.6	209.5	161.5	120.9	102.4	61.8	46.8	37.4	31.3	27.2	22.1	18.5	10.0
1.80V/cell	346.5	286.1	239.1	181.1	134.2	112.6	66.9	50.4	40.1	33.6	29.1	23.7	19.8	10.5
1.75V/cell	367.0	299.5	248.5	187.7	138.6	115.9	68.6	51.5	41.0	34.2	29.6	24.0	20.0	10.7
1.70V/cell	386.3	313.0	258.9	194.2	142.8	119.4	70.4	52.8	41.9	34.9	30.2	24.4	20.3	10.8
1.67V/cell	397.3	323.6	264.5	198.0	145.2	121.3	71.3	53.4	42.3	35.3	30.5	24.6	20.5	10.9
1.60V/cell	421.2	337.7	277.2	206.5	151.1	126.0	73.8	55.1	43.5	36.2	31.2	25.1	20.9	11.0

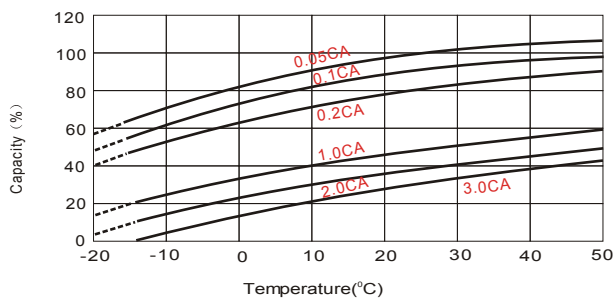
Discharge Characteristics



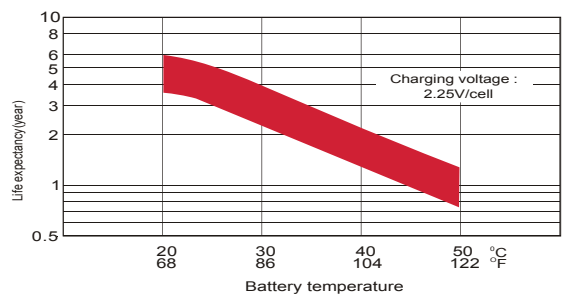
Float Charging Characteristics



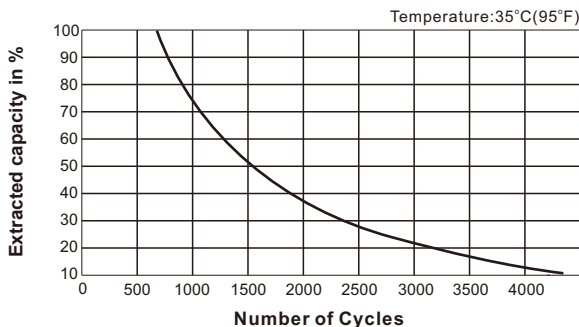
Temperature Effects in Relation to Battery Capacity



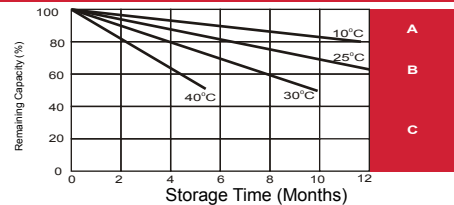
Effect of Temperature on Long Term Float Life



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 0.25CA 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.

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