

CHT1500-2

12V 1500AH

High Temperature Battery

CANBAT

CHT1500-12



Physical Specification

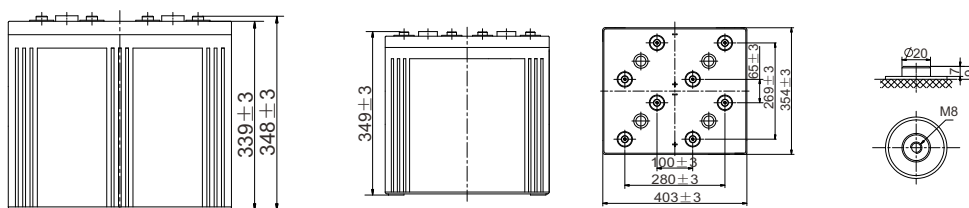
Part Number:	CHT1500-12
Length:	403 ± 2 mm (15.86 inches)
Width:	354 ± 2 mm (13.94 inches)
Container Height:	339 ± 2 mm (13.34 inches)
Total Height (with terminal):	349 ± 2 mm (13.74 inches)
Approx Weight:	109.5 kg (241.4 lbs)

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	1500AH
Terminal Options	Standard Terminal	T11
	Terminal Specs	(M8,Torque11~14.7N m)
Container Material	Standard Option	ABS (High Temperature Resistant Material)
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity(35°)	C20(79.5A,1.80V/cell)	1590.0 Ah
	C10(150A,1.80V/cell)	1500.0 Ah
	C5(266.4A,1.75V/cell)	1332.0Ah
	C3(397.5A,1.75V/cell)	1192.5 Ah
	C1(922.5A,1.67V/cell)	922.5 Ah
Max Discharge Current	9000A (5s)	
Internal Resistance	Approx 0.28mΩ	
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 375A.Voltage 2.35V ~ 2.40V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 375A.Voltage 2.25V 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

T11 Terminal



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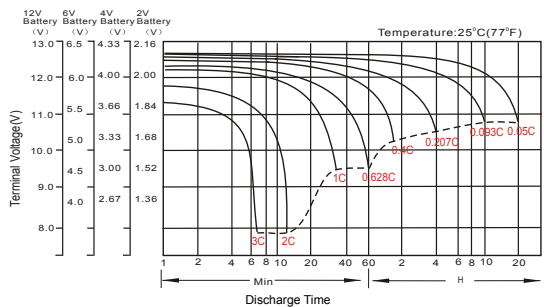
Constant Current Discharge (Amperes) at 35° C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1750.1	1485.0	1355.4	1219.5	1026.0	840.0	706.5	468.0	360.9	291.4	245.7	214.3	171.0	143.4	75.9
1.80V/cell	2130.0	1737.0	1544.6	1372.5	1131.0	912.0	765.9	499.5	379.0	303.8	255.9	222.0	178.1	150.0	79.5
1.75V/cell	2489.5	1998.0	1747.4	1539.0	1239.0	994.0	836.4	528.0	397.5	318.8	266.4	230.3	183.0	153.0	81.1
1.70V/cell	2849.0	2241.0	1931.4	1674.0	1332.0	1054.0	884.9	554.3	415.0	330.0	274.3	237.5	188.4	156.8	83.1
1.67V/cell	3058.7	2412.0	2082.0	1800.0	1410.0	1100.0	922.5	576.0	428.2	339.4	281.9	243.0	190.9	159.3	84.4
1.60V/cell	3330.0	2583.0	2208.0	1890.0	1473.0	1148.0	961.7	597.8	438.3	346.9	287.7	247.5	194.3	160.8	85.1

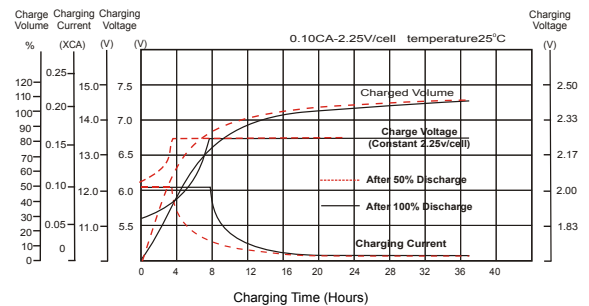
Constant Power Discharge (Watts/cell) at 35° C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3268.4	2793.7	2566.3	2319.5	1960.8	1615.1	1366.6	910.3	705.4	571.5	484.0	423.4	339.3	285.2	151.2
1.80V/cell	3912.9	3220.4	2886.8	2583.0	2144.0	1741.9	1473.2	966.9	737.1	593.7	501.9	436.9	352.4	297.9	158.0
1.75V/cell	4493.6	3645.4	3219.8	2863.3	2330.9	1887.4	1601.6	1018.0	771.2	620.9	520.7	451.8	361.2	303.5	161.0
1.70V/cell	5057.0	4031.6	3522.5	3087.9	2484.8	1987.4	1685.7	1064.2	802.1	640.2	534.6	465.3	371.6	310.7	164.9
1.67V/cell	5331.3	4274.5	3749.7	3284.6	2610.8	2062.5	1747.3	1101.3	824.0	656.2	547.4	474.6	375.5	315.3	167.3
1.60V/cell	5684.3	4488.0	3910.8	3409.6	2700.0	2132.4	1808.9	1135.7	839.0	667.7	556.6	481.9	381.3	317.7	168.3

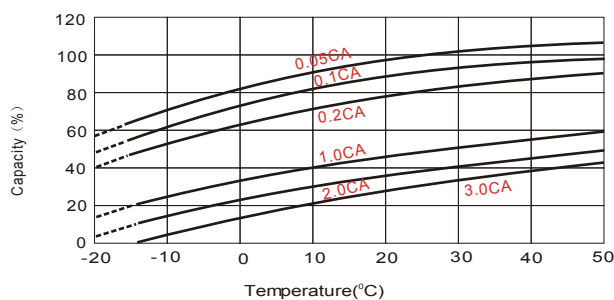
Discharge Characteristics



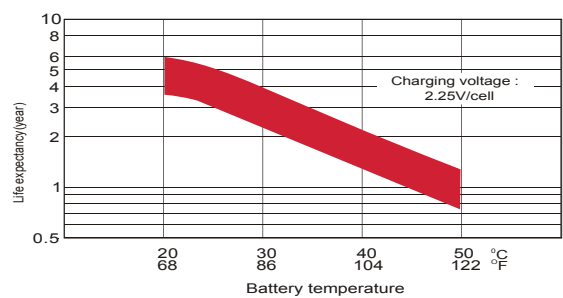
Float Charging Characteristics



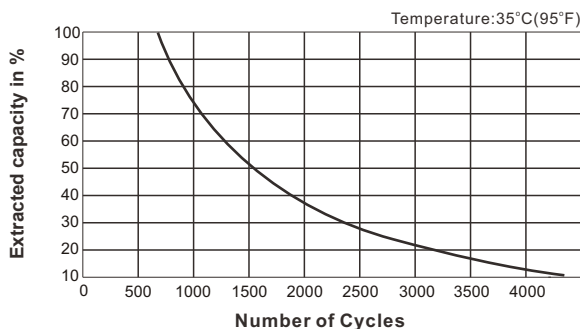
Temperature Effects in Relation to Battery Capacity



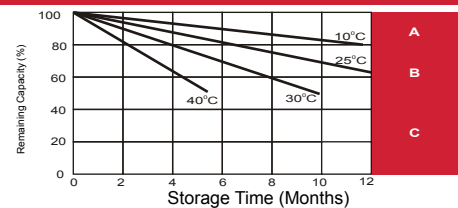
Effect of Temperature on Long Term Float Life



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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