

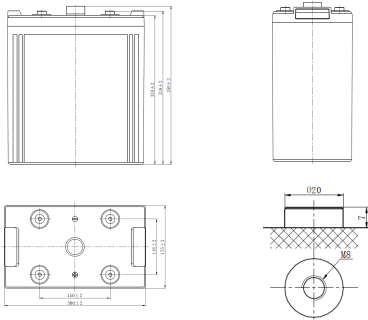
LHT SERIES-High TEMPERATURE

LHT2-600(2V600AH)



Applications

- ◆ Tele-communication central station
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS for Telecom)



Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	600Ah	
Dimension	Length	300mm (11.81 in.)
	Width	175mm (6.89 in.)
	Container Height	330mm (12.99 in.)
	Total Height (with Terminal)	350mm (13.78 in.)
Approx Weight	42.3 Kg (93.25 lbs)	
Terminal	T 11(M8,Torque11~14.7N·m)	
Container Material	ABS(High Temperature Resistant Material)	
Rated Capacity(35°C)	C20(31.8A, 1.80V/cell)	636.0 Ah
	C10(60.0A, 1.80V/cell)	600.0 Ah
	C5(106.6A, 1.75V/cell)	533.0Ah
	C3(159.0A, 1.75V/cell)	477.0 Ah
	C1(369.0A, 1.67V/cell)	369.0 Ah
Max. Discharge Current	3600A (5s)	
Internal Resistance	Approx 0.40mΩ	
Operating Temp.Range	The battery could use at -40°C~+65°C and extreme temperature can be up to 80°C.	
Cycle Use (35°C)	Charging Current	≤150A
	Charging Voltage	2.35V~2.40V
Standby Use (35°C)	Charging Current	≤150A
	Charging Voltage	2.25V
	Temp. Coefficient	-3mV/cell/°C
Capacity affected by Temperature	40°C (104°F)	103%
	35°C (95°F)	100%
	0°C (32°F)	79%
Monthly Self Discharge	≤3% per month at 25°C	

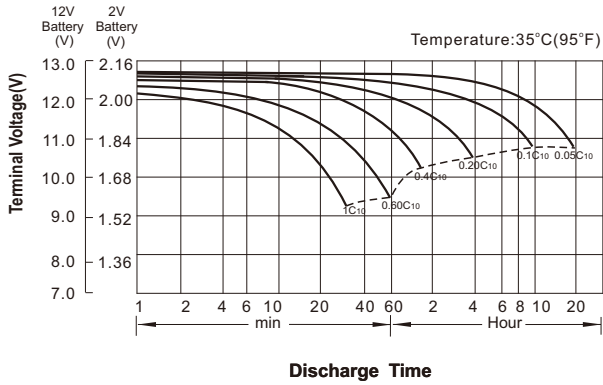
Constant Current Discharge (Amperes) at 35 °C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	700.0	594.0	542.2	487.8	410.4	336.0	282.6	187.2	144.4	116.6	98.3	85.7	68.4	57.4	30.4
1.80V/cell	852.0	694.8	617.8	549.0	452.4	364.8	306.4	199.8	151.6	121.5	102.4	88.8	71.3	60.0	31.8
1.75V/cell	995.8	799.2	699.0	615.6	495.6	397.6	334.5	211.2	159.0	127.5	106.6	92.1	73.2	61.2	32.4
1.70V/cell	1139.6	896.4	772.6	669.6	532.8	421.6	354.0	221.7	166.0	132.0	109.7	95.0	75.4	62.7	33.2
1.67V/cell	1223.5	964.8	832.8	720.0	564.0	440.0	369.0	230.4	171.3	135.8	112.7	97.2	76.4	63.7	33.8
1.60V/cell	1332.0	1033.2	883.2	756.0	589.2	459.2	384.7	239.1	175.3	138.8	115.1	99.0	77.7	64.3	34.0

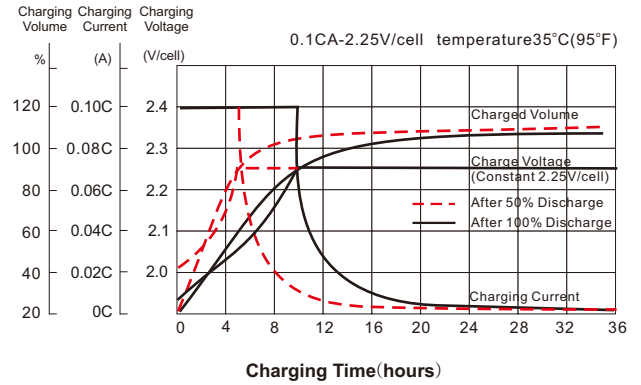
Constant Power Discharge (Watts/cell) at 35 °C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1307.4	1117.5	1026.5	927.8	784.3	646.0	546.6	364.1	282.1	228.6	193.6	169.3	135.7	114.1	60.5
1.80V/cell	1565.2	1288.2	1154.7	1033.2	857.6	696.8	589.3	386.8	294.8	237.5	200.8	174.8	141.0	119.2	63.2
1.75V/cell	1797.4	1458.1	1287.9	1145.3	932.4	755.0	640.7	407.2	308.5	248.4	208.3	180.7	144.5	121.4	64.4
1.70V/cell	2022.8	1612.6	1409.0	1235.1	993.9	795.0	674.3	425.7	320.8	256.1	213.9	186.1	148.6	124.3	65.9
1.67V/cell	2132.5	1709.8	1499.9	1313.9	1044.3	825.0	698.9	440.5	329.6	262.5	218.9	189.8	150.2	126.1	66.9
1.60V/cell	2273.7	1795.2	1564.3	1363.8	1080.0	853.0	723.5	454.3	335.6	267.1	222.6	192.8	152.5	127.1	67.3

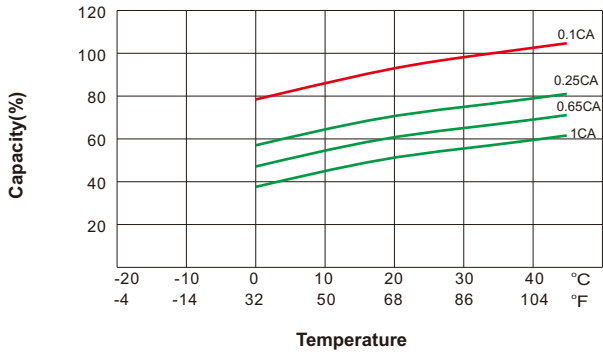
Discharge Characteristics



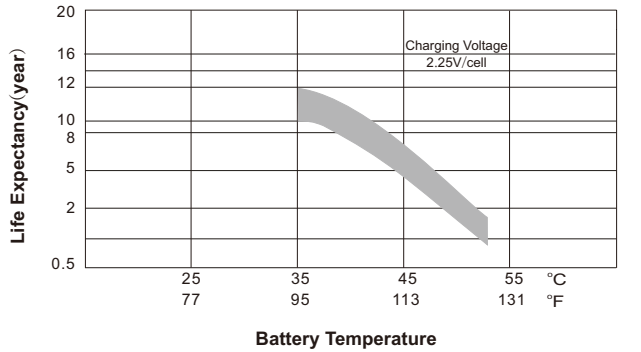
Float Charging Characteristics



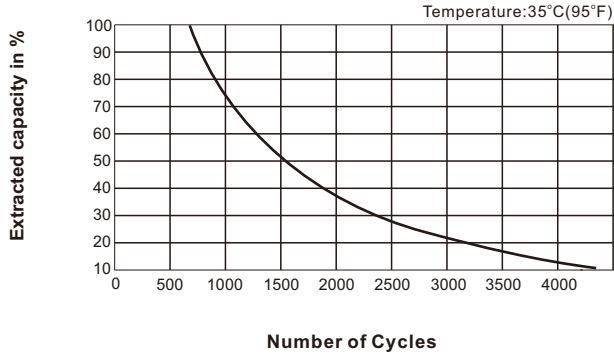
Temperature Effects in Relation to Battery Capacity



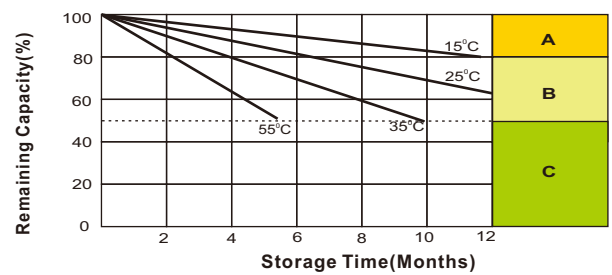
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- A** No supplementary charge required (Carry out 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 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.
- 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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