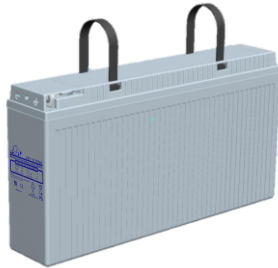


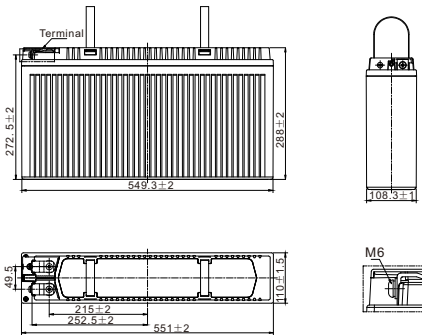
# LHT SERIES-High TEMPERATURE

## LHTF12-150(12V150AH)



### 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	12V	
Nominal Capacity(10HR)	150Ah	
Dimension	Length	551mm (21.69 in.)
	Width	110mm (4.33 in.)
	Container Height	288mm (11.34 in.)
	Total Height (with Terminal)	288mm (11.34 in.)
Approx Weight	46.0 Kg (101.41 lbs)	
Terminal	M6	
Container Material	ABS(High Temperature Resistant Material)	
Rated Capacity( 35°C)	C20(7.95A, 1.80V/cell)	159.0 Ah
	C10(15.0A, 1.80V/cell)	150.0 Ah
	C5(26.3A, 1.75V/cell)	131.5 Ah
	C3(39.8A, 1.75V/cell)	119.4 Ah
	C1(96.0A, 1.67V/cell)	96.0 Ah
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 7mΩ	
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	≤37.5A
	Charging Voltage	14.1V~14.4V
Standby Use ( 35°C)	Charging Current	≤37.5A
	Charging Voltage	13.5V
	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	

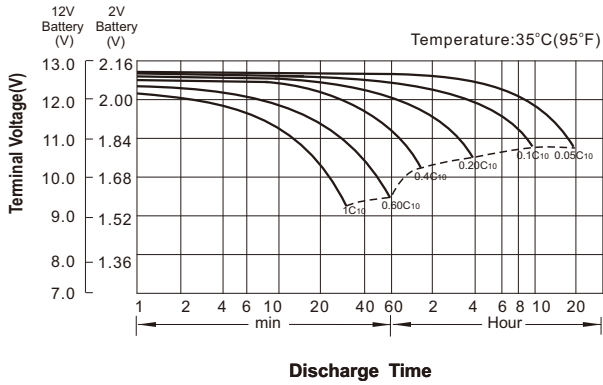
### Constant Current Discharge (Amperes) at 35 °C (95°F)

F. V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	233.0	194.1	163.1	125.4	93.6	79.0	47.4	35.8	28.5	23.8	20.7	16.8	14.1	7.53
1.80V/cell	274.8	225.7	188.0	141.7	104.6	87.5	51.6	38.7	30.7	25.7	22.2	18.0	15.0	7.95
1.75V/cell	294.7	238.8	197.2	148.1	108.9	90.7	53.2	39.8	31.5	26.3	22.7	18.3	15.2	8.05
1.70V/cell	314.3	252.4	207.5	154.7	113.0	94.0	54.9	40.9	32.3	26.8	23.1	18.7	15.5	8.15
1.67V/cell	325.8	260.3	213.4	158.6	115.5	96.0	55.8	41.5	32.7	27.2	23.4	18.8	15.6	8.21
1.60V/cell	352.5	279.0	227.3	167.6	121.5	100.7	58.1	43.1	33.8	28.0	24.1	19.3	15.9	8.36

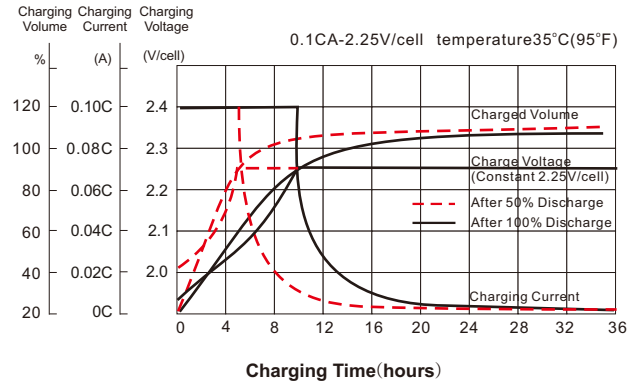
### Constant Power Discharge (Watts/cell) at 35 °C (95°F)

F. V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	446.1	372.9	314.3	242.3	181.4	153.6	92.7	70.2	56.0	46.9	40.8	33.2	27.8	15.0
1.80V/cell	519.7	429.1	358.7	271.7	201.4	168.9	100.4	75.6	60.2	50.4	43.6	35.5	29.6	15.8
1.75V/cell	550.5	449.2	372.7	281.5	207.9	173.9	102.9	77.3	61.5	51.4	44.4	36.1	30.1	16.0
1.70V/cell	579.4	469.4	388.3	291.3	214.1	179.0	105.6	79.2	62.8	52.4	45.3	36.6	30.5	16.2
1.67V/cell	596.0	485.5	396.8	297.0	217.8	181.9	107.0	80.1	63.5	52.9	45.7	37.0	30.7	16.3
1.60V/cell	631.8	506.5	415.9	309.8	226.7	188.9	110.7	82.6	65.3	54.3	46.8	37.7	31.3	16.6

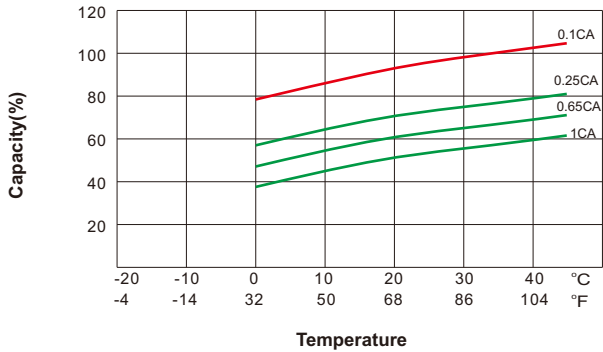
### Discharge Characteristics



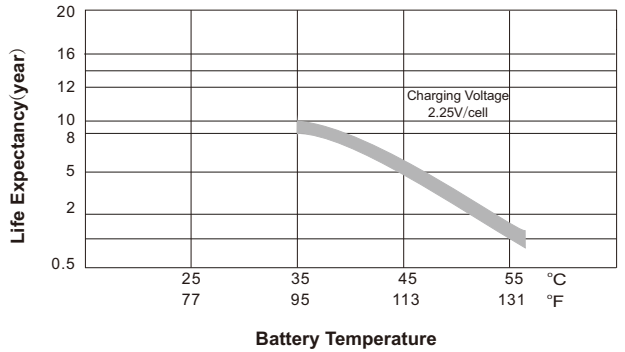
### Float Charging Characteristics



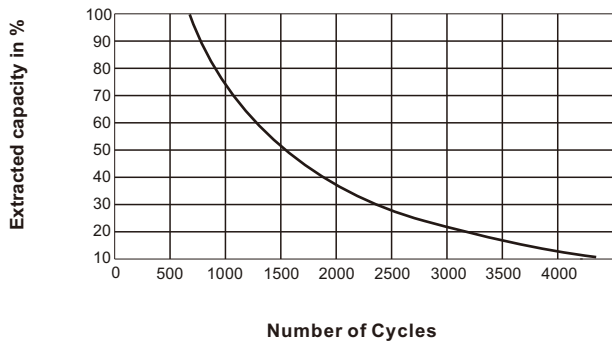
### Temperature Effects in Relation to Battery Capacity



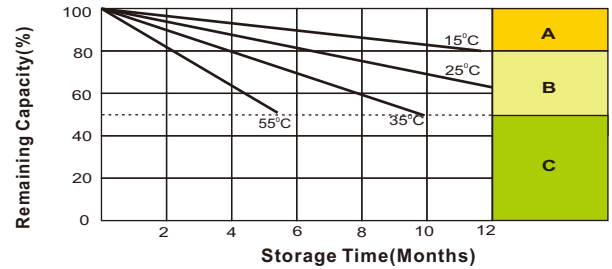
### Effect of Temperature on Long Term Float Life



### 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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