



# LHT Series-High Temperature LHTF12-150(12V150Ah)

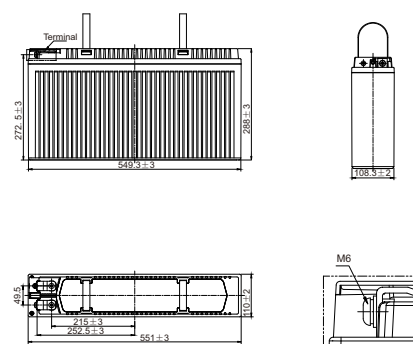


## Specifications

Rated Voltage	12V	
Nominal Capacity	150Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	551±3mm (21.7 inches)
	Width	110±2mm (4.33 inches)
	Container Height	288±3mm (11.3 inches)
	Total Height	288±3mm (11.3 inches)
Approx Weight	46.0 Kg (101.4 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (35°C)	159.0 Ah	(20hr, 7.95A, 1.80V/cell)
	150.0 Ah	(10hr, 15.0A, 1.80V/cell)
	131.5 Ah	(5hr, 26.3A, 1.75V/cell)
	119.4 Ah	(3hr, 39.8A, 1.75V/cell)
	100.7 Ah	(1hr, 100.7A, 1.60V/cell)
Max. Discharge Current	1500A	
Internal Resistance (35°C)	Approx 7.0mΩ	
Operating Temp. Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	-20 ~ 45°C (-4 ~ 113°F)
	Storage	-20 ~ 50°C (-4 ~ 122°F)
Nominal Operating Temp. Range	25±10°C (77±18°F)	
Cycle Use	Initial Charging Current less than 37.5A. Voltage 14.1V~14.4V at 35°C(95°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 37.5A. Voltage 13.5V~13.8V at 35°C(95°F)Temp. Coefficient -18mV/°C	
Standby Use	Initial Charging Current less than 37.5A. Voltage 13.5V~13.8V at 35°C(95°F)Temp. Coefficient -18mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	35°C (95°F)	100%
	0°C (32°F)	79%
Self Discharge	LHT series batteries may be stored for up to 9 months at 35°C(95°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



## Layout



## 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



# LHT Series-High Temperature

## LHTF12-150(12V150Ah)



### Applications

- Tele-communication base station
- High temperature station without air-condition
- Station in the open air
- Electric power system, UPS
- Solar energy, wind saving energy power supply

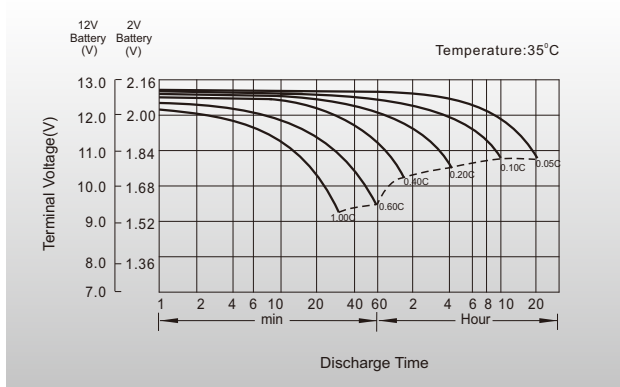
### General Features

- Battery design life up to 10 years at 35°C
- Special anti-high-temperature paste formula
- Special anti-high-temperature container
- Special double sealing and anti-high-temperature sealing agent
- High performance separator and special electrolyte formula

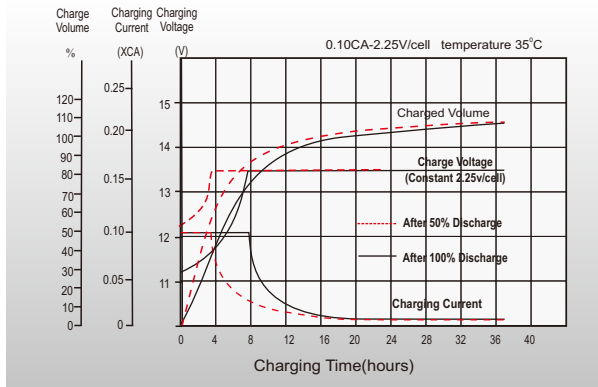
### Standards

- Classified as "Long Life" according to Eurobat
- UL, CE Certified
- Manufactured in Leoch® IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

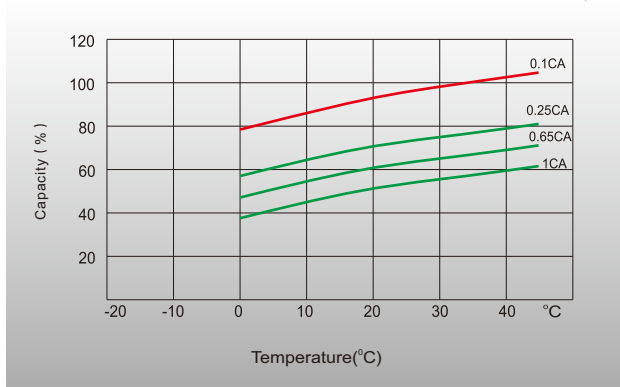
### Discharge Characteristics



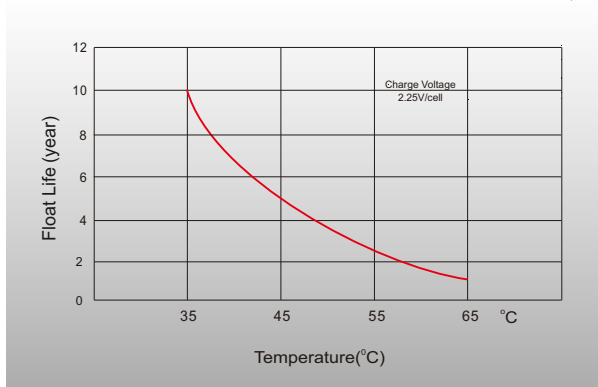
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



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