



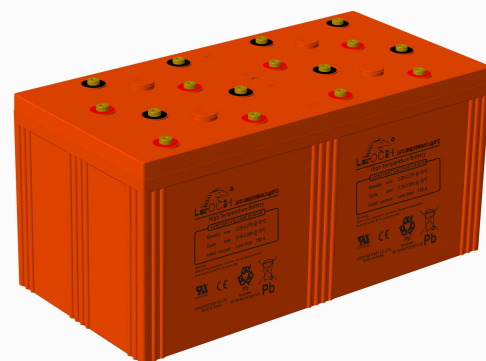
# LHT Series-High Temperature

## LHT2-3000(2V3000Ah)

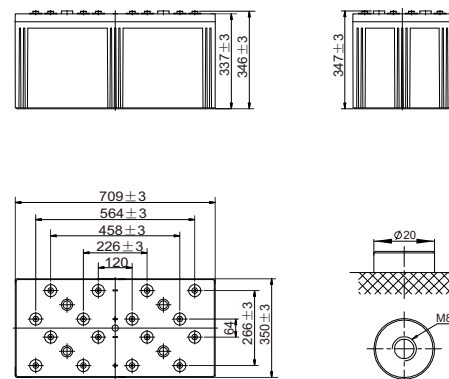


### Specifications

Rated Voltage	2V	
Nominal Capacity	3000Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	709±3mm (27.9 inches)
	Width	350±3mm (13.9 inches)
	Container Height	337±3mm (13.3 inches)
	Total Height	347±3mm (13.7 inches)
Approx Weight	183.0 Kg (403.5 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (35°C)	3180.0 Ah	(20hr, 159.0A, 1.80V/cell)
	3000.0 Ah	(10hr, 300.0A, 1.80V/cell)
	2664.0 Ah	(5hr, 532.8A, 1.75V/cell)
	2385.0 Ah	(3hr, 795.0A, 1.75V/cell)
	1923.3 Ah	(1hr, 1923.3A, 1.60V/cell)
Max. Discharge Current	24000A	
Internal Resistance (35°C)	Approx 0.2mΩ	
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 750A. Voltage 2.30V~2.40V at 35°C(95°F) Temp. Coefficient -5mV/°C	
	Initial Charging Current less than 750A. Voltage 2.20V~2.27V at 35°C(95°F) Temp. Coefficient -3mV/°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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3500.2	2970.0	2710.8	2439.0	2052.0	1680.0	1413.0	936.0	721.9	582.8	491.4	428.5	342.0	286.8	151.8
1.80V/cell	4260.1	3474.0	3089.2	2745.0	2262.0	1824.0	1531.8	999.0	757.9	607.5	511.8	444.0	356.3	300.0	159.0
1.75V/cell	4979.0	3996.0	3494.9	3078.0	2478.0	1988.0	1672.7	1056.0	795.0	637.5	532.8	460.5	366.0	306.0	162.2
1.70V/cell	5698.0	4482.0	3862.8	3348.0	2664.0	2108.0	1769.8	1108.5	830.0	660.0	548.7	475.0	376.9	313.5	166.2
1.67V/cell	6117.4	4824.0	4164.0	3600.0	2820.0	2200.0	1845.0	1152.0	856.5	678.8	563.7	486.0	381.8	318.6	168.9
1.60V/cell	6660.0	5166.0	4416.0	3780.0	2946.0	2296.0	1923.3	1195.5	876.6	693.8	575.5	495.0	388.5	321.6	170.1

### 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	6536.9	5587.5	5132.6	4639.0	3921.6	3230.1	2733.2	1820.6	1410.7	1142.9	968.1	846.7	678.7	570.4	302.3
1.80V/cell	7825.8	6440.8	5773.6	5166.1	4288.1	3483.8	2946.3	1933.9	1474.2	1187.5	1003.8	873.8	704.8	595.8	316.1
1.75V/cell	8987.2	7290.7	6439.7	5726.6	4661.9	3774.8	3203.3	2036.1	1542.3	1241.9	1041.4	903.5	722.4	607.0	322.0
1.70V/cell	10113.9	8063.1	7044.9	6175.7	4969.7	3974.8	3371.3	2128.3	1604.1	1280.4	1069.3	930.5	743.2	621.4	329.7
1.67V/cell	10662.6	8549.1	7499.4	6569.3	5221.5	4125.0	3494.6	2202.5	1648.0	1312.4	1094.7	949.2	750.9	630.5	334.7
1.60V/cell	11368.6	8975.9	7821.6	6819.1	5400.0	4264.8	3617.7	2271.5	1678.0	1335.5	1113.2	963.8	762.6	635.4	336.6



# LHT Series-High Temperature

## LHT2-3000(2V3000Ah)



### 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

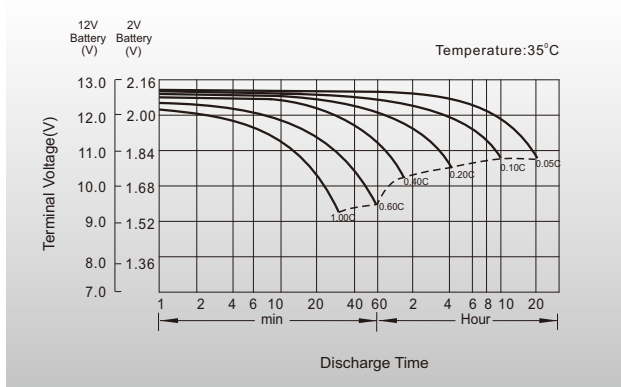
### General Features

- Battery design life up to 15 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

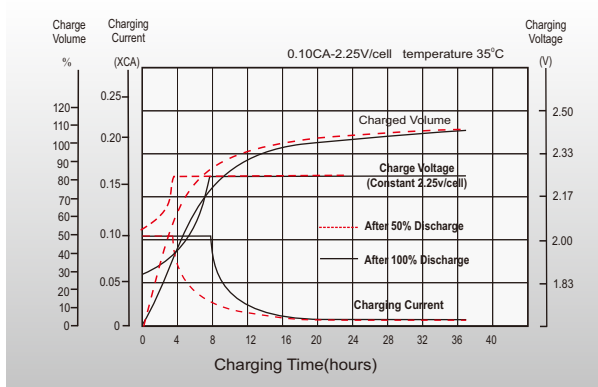
### Standards

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

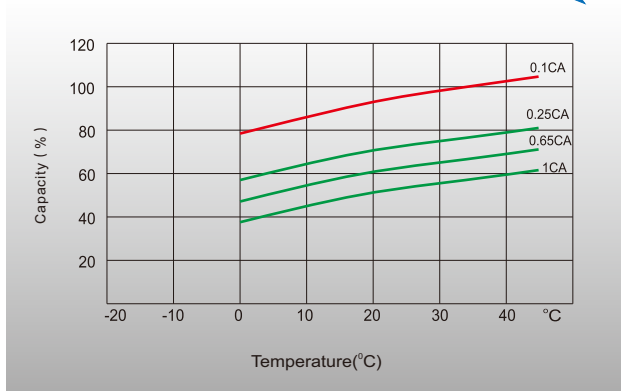
### Discharge Characteristics



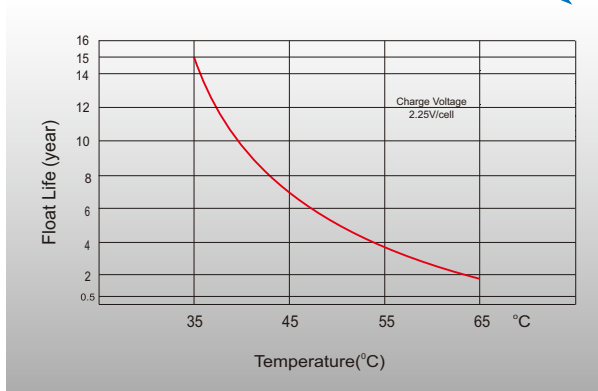
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



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