



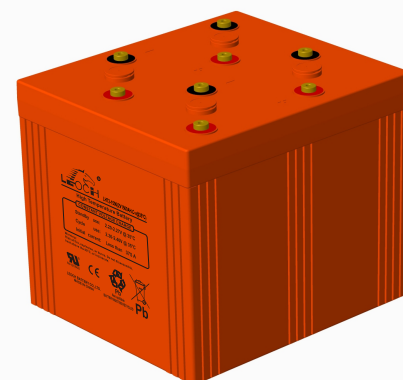
# LHT Series-High Temperature

## LHT2-1500(2V1500Ah)

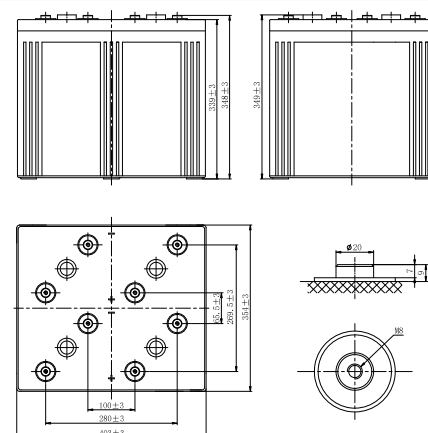


### Specifications

Rated Voltage	2V	
Nominal Capacity	1500Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	403±3mm (15.9 inches)
	Width	354±3mm (13.9 inches)
	Container Height	339±3mm (13.3 inches)
	Total Height	349±3mm (13.7 inches)
Approx Weight	97.8kg (215.6 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (35°C)	1590.0 Ah	(20hr, 79.5A, 1.80V/cell)
	1500.0 Ah	(10hr, 150.0A, 1.80V/cell)
	1332.0 Ah	(5hr, 266.4A, 1.75V/cell)
	1192.5 Ah	(3hr, 397.5A, 1.75V/cell)
	961.7 Ah	(1hr, 961.7A, 1.60V/cell)
Max. Discharge Current	1200A	
Internal Resistance (35°C)	Approx 0.3mΩ	
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 250A. Voltage 2.30V~2.40V at 35°C(95°F) Temp. Coefficient -5mV/°C	
	Initial Charging Current less than 250A. 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	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



# LHT Series-High Temperature

## LHT2-1500(2V1500Ah)



### 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

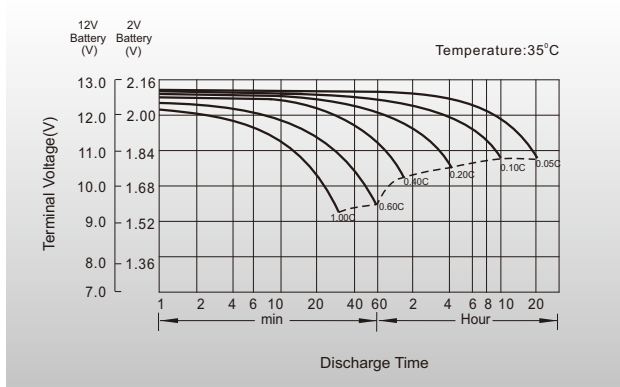
### General Features

- 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

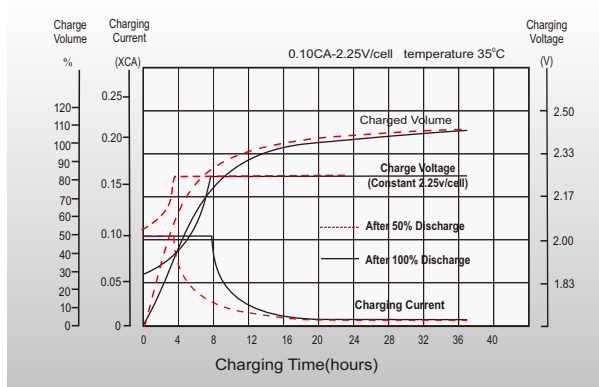
### Standards

- Compliance with IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL, CE Certified
- Manufactured in Leoch® IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

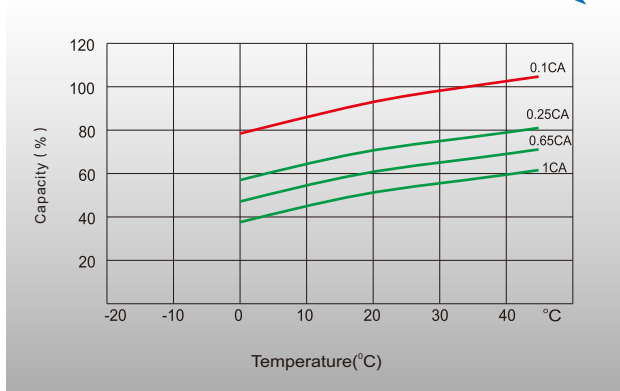
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

