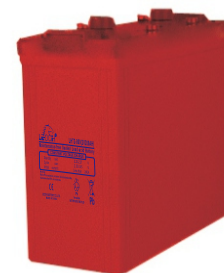


LHT SERIES-HIGH TEMPERATURE

LHT2-800 (2V, 800AH)

Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	800AH	
Dimensions	Length	410±2mm (16.14 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±2mm (12.99 inches)
	Total Height (with Terminal)	350±2mm (13.78 inches)
Approx Weight	Approx 58.4 kg (128.75 lbs)	
Terminal	T11 Inserted terminal with M8 bolt	
Container Material	High Temperature resistant material with std. UL94V-0 Flame Retardant ABS/PC jars.	
Rated Capacity	848.0 AH/42.4A	(20hr , 1.80V/cell,35°C/95°F)
	800.0 AH/80.0A	(10hr, 1.80V/cell,35°C/95°F)
	780.8AH/97.6A	(8hr, 1.75V/cell,35°C/95°F)
	636.0 AH/212.0A	(3hr, 1.75V/cell,35°C/95°F)
	492.0 AH/492.0A	(1hr, 1.67V/cell,35°C/95°F)
Max. Discharge Current	4800A (5s)	
Internal Resistance	Approx 0.50mΩ	
Operating Temp.Range	-40~80°C (-40~176°F)	
Cycle Use	Initial Charging Current less than 180A.Voltage	
	2.40V~2.50V at 35°C(95°F)Temp. Coefficient -30mV/°C	
Standby (Float) Use	No limit on Initial Charging Current Voltage	
	2.25V~2.30V at 35°C(95°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	35°C (95°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LHT series batteries may be stored for up to 6 months at 35°C(95°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (Long duration UPS for Telecom & Utility)



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

F.V(V/cell)	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	933.4	792.0	722.9	650.4	547.2	448.0	376.8	249.6	192.5	155.4	131.0	114.3	91.2	76.5	40.5
1.80V/cell	1136.0	926.4	823.8	732.0	603.2	486.4	408.5	266.4	202.1	162.0	136.5	118.4	95.0	80.0	42.4
1.75V/cell	1327.7	1065.6	932.0	820.8	660.8	530.1	446.1	281.6	212.0	170.0	142.1	122.8	97.6	81.6	43.2
1.70V/cell	1519.5	1195.2	1030.1	892.8	710.4	562.1	472.0	295.6	221.3	176.0	146.3	126.7	100.5	83.6	44.3
1.67V/cell	1631.3	1286.4	1110.4	960.0	752.0	586.7	492.0	307.2	228.4	181.0	150.3	129.6	101.8	85.0	45.0
1.60V/cell	1776.0	1377.6	1177.6	1008.0	785.6	612.3	512.9	318.8	233.8	185.0	153.5	132.0	103.6	85.8	45.4

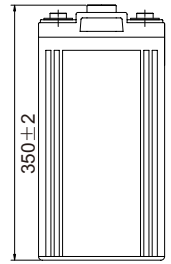
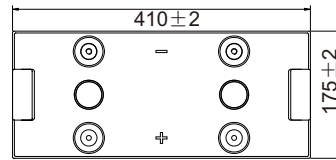
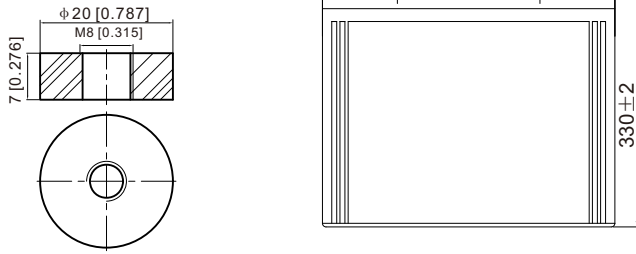
Constant Power Discharge (Watts) at 35 °C (95°F)

F.V(V/cell)	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1743.2	1490.0	1368.7	1237.1	1045.8	861.4	728.8	485.5	376.2	304.8	258.1	225.8	181.0	152.1	80.6
1.80V/cell	2086.9	1717.5	1539.6	1377.6	1143.5	929.0	785.7	515.7	393.1	316.7	267.7	233.0	188.0	158.9	84.3
1.75V/cell	2396.6	1944.2	1717.2	1527.1	1243.2	1006.6	854.2	543.0	411.3	331.2	277.7	240.9	192.7	161.9	85.9
1.70V/cell	2697.0	2150.2	1878.6	1646.9	1325.3	1060.0	899.0	567.6	427.8	341.4	285.1	248.1	198.2	165.7	87.9
1.67V/cell	2843.3	2279.8	1999.8	1751.8	1392.4	1100.0	931.9	587.3	439.5	350.0	291.9	253.1	200.2	168.1	89.2
1.60V/cell	3031.6	2393.6	2085.8	1818.4	1440.0	1137.3	964.7	605.7	447.5	356.1	296.8	257.0	203.4	169.4	89.8

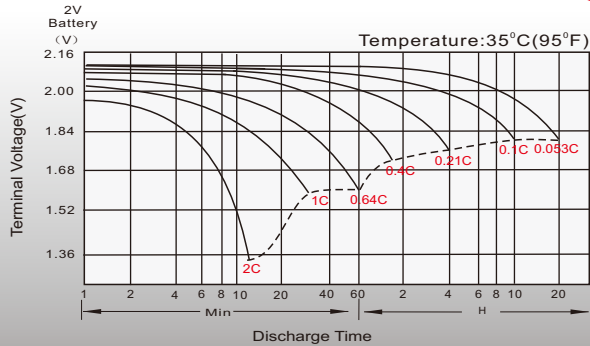
Dimensions

T11 Terminal

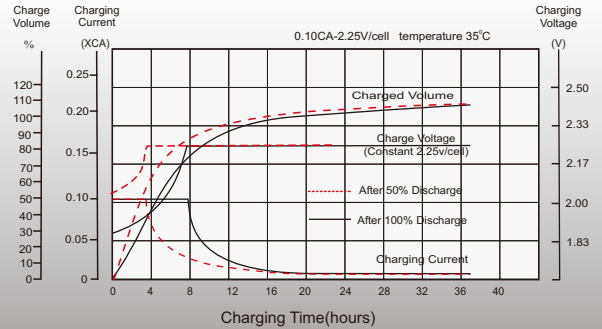
Unit: mm [inches]



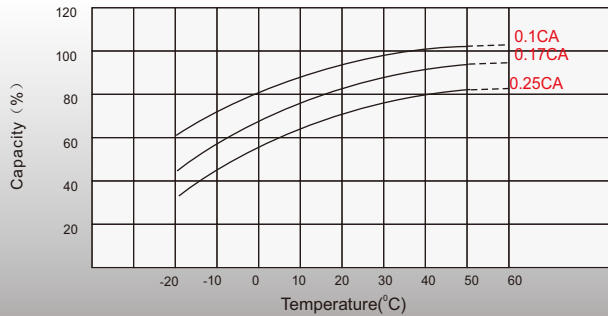
Discharge Characteristics



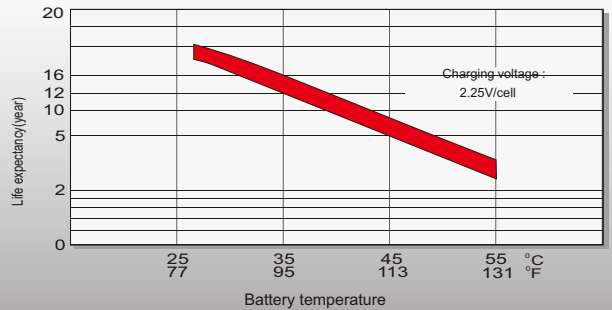
Float Charging Characteristics



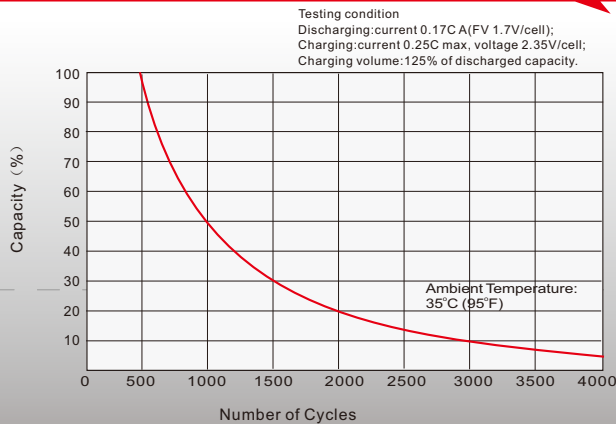
Temperature Effects in Relation to Battery Capacity



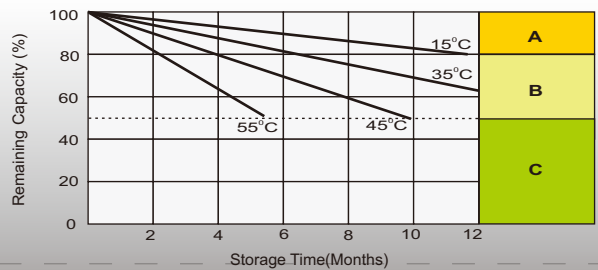
Effect of Temperature on Long Term Float Life



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.

Sales Office

China sales office:

5th Floor, Xinbaohui Bldg., Nanhai Blvd.,
Nanshan, Shenzhen, China. 518052
Tel: +86-755-86036060 (100 lines)
Fax: +86-755-26067269
E-mail: export@leoch.com
Http://www.leoch.com

North America sales office:

19751 Descartes, Unit A,
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5966
E-mail: sales@leoch.us
Http://www.leoch.us

Europe sales office:

9B Wheatstone Park, Waterwells
Business Park, Gloucester, GL2 2AQ, UK.
Tel: +44(0) 01452 729428
Fax: +44 (0)1452-690125
E-mail: Sales.Europe@leoch.com

Singapore sales office:

No.53, Ubi Avenue 1, #03-21 Paya
Ubi Industrial Park, Singapore 408934
Tel: +65 6841 6629
E-mail: sales.sg@leoch.com

HongKong sales office:

Unit 3910, 39/F, Cable TV Tower, No.9
Hoi Shing Road, Tsuen Wan, NT.H.K
Tel: +852 3578 6666
E-mail: sales.hk@leoch.com