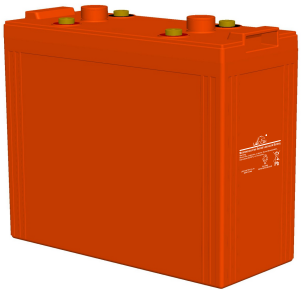
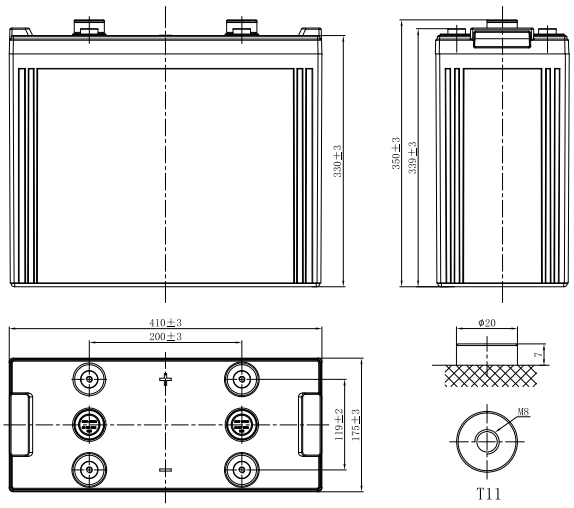
LHT SERIES-HIGH TEMPERATURE

LHT2-800 (2V800Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (35˚C)	C_{10},1.80V/cell	800Ah
Dimension	Length	410mm (16.1inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	350mm (13.8inches)
Approx Weight		50.4kg (111.1lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 V-0)
Short-circuit current		8800A
Internal Resistance (35˚C)		Approx 0.4 mΩ (Fully charged)
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)
Max.Charging Current (35˚C)		0.25C
Charge voltage (35˚C)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	35˚C (95°F)	100%
	0˚C (32°F)	86%
Self Discharge	LHT series batteries can 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.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 35°C (95°F)											
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	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	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	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	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	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	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/cell) at 35°C (95°F)											
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	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	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	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	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	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	1440.0	1137.3	964.7	605.7	447.5	356.1	296.8	257.0	203.4	169.4	89.8

LHT SERIES-HIGH TEMPERATURE

LHT2-800 (2V800Ah)

LEOCH BATTERY

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

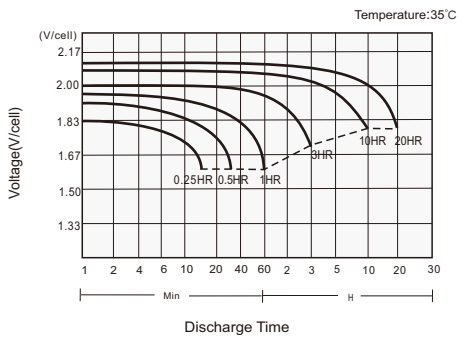
GENERAL FEATURES

- Design life up to 15 years at 35℃
- Specifically formulated heat resistant plastic case and cover optimizes compression, and meets safety requirements(UL 94 V-0)
- Alloy inhibits corrosion under the highest temperature extremes
- Puncture resistant micro-porous glass mat separators extend life
- Epoxy-sealed posts eliminate leaks

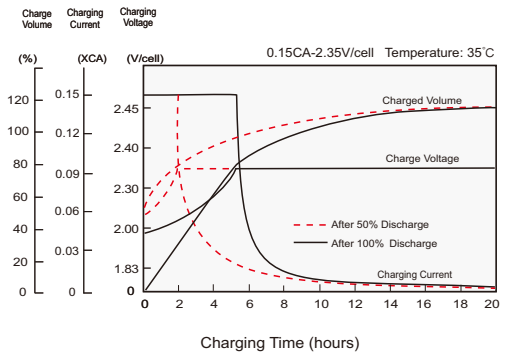
STANDARDS

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

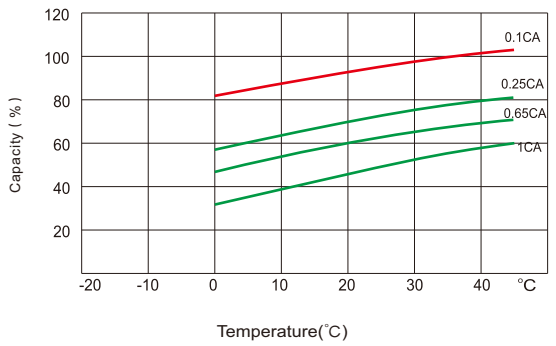
Discharge Characteristics



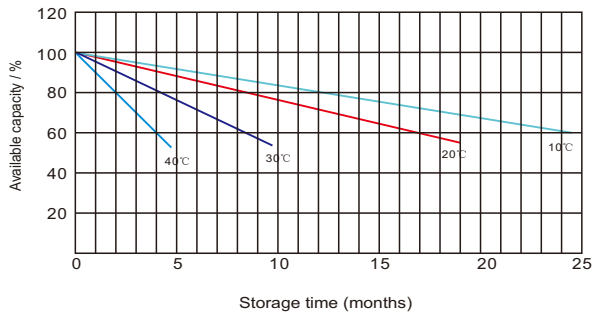
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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