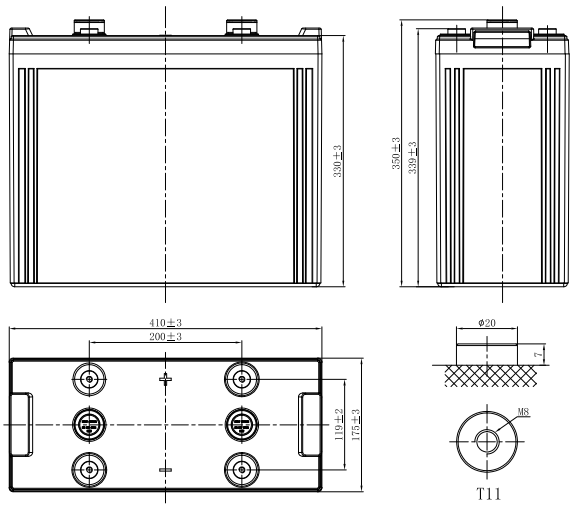
LHT SERIES-HIGH TEMPERATURE

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)	Float Charge	Equalization Charge
	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	504.0	440.2	385.3	246.1	187.2	150.6	127.1	110.3	89.7	75.0	40.2
1.80V/cell	578.8	492.3	426.4	267.8	202.6	162.3	136.9	118.3	96.0	80.0	42.4
1.75V/cell	605.6	512.3	442.2	276.0	208.0	166.4	140.0	120.8	97.7	81.2	42.9
1.70V/cell	644.7	531.7	458.4	284.8	214.1	170.6	143.2	123.4	99.5	82.5	43.5
1.67V/cell	662.6	543.7	468.0	289.6	217.3	173.0	145.0	124.9	100.5	83.2	43.8
1.60V/cell	674.9	571.7	490.8	301.6	225.3	178.7	149.4	128.4	102.9	85.0	44.6

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	925.5	853.6	749.0	481.0	367.1	296.0	250.2	217.5	177.2	148.4	79.9
1.80V/cell	1053.8	947.5	823.3	520.7	395.6	317.9	268.7	232.7	189.3	158.1	84.2
1.75V/cell	1093.1	978.5	847.7	533.7	404.4	324.6	273.9	236.9	192.4	160.3	85.2
1.70V/cell	1152.9	1007.6	872.8	547.9	414.3	331.6	279.3	241.4	195.4	162.5	86.2
1.67V/cell	1173.2	1025.1	886.7	555.1	419.4	335.4	282.2	243.9	197.1	163.8	86.8
1.60V/cell	1184.6	1066.6	921.1	574.0	432.3	344.8	289.6	249.7	201.2	166.8	88.3

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

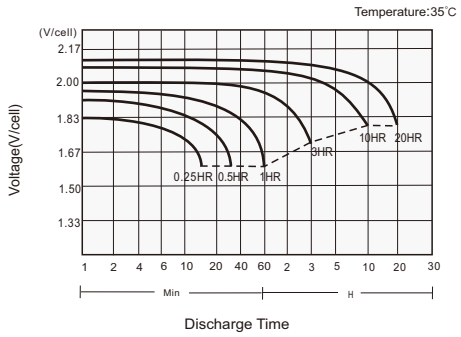
GENERAL FEATURES

- 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

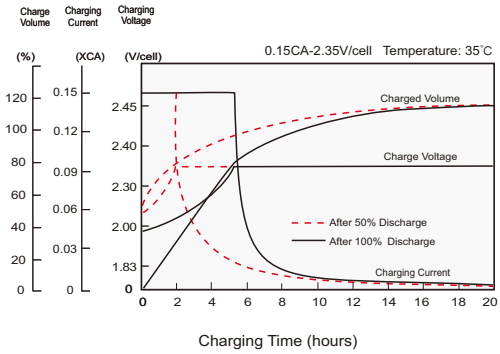
STANDARDS

- 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

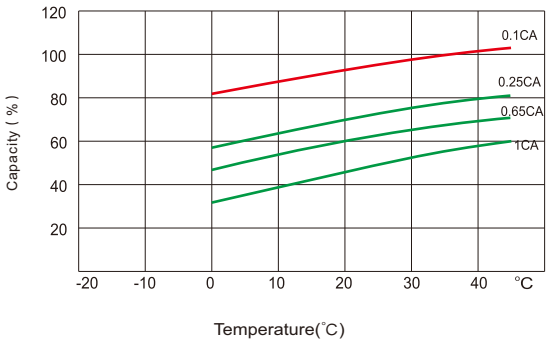
Discharge Characteristics



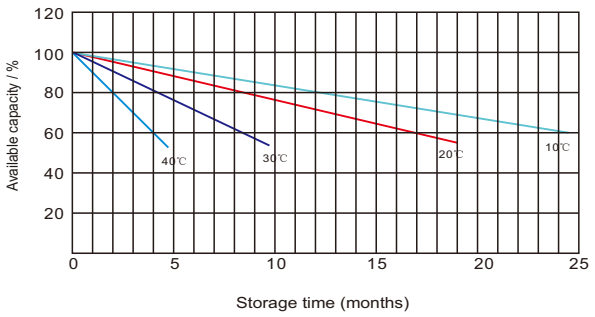
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



Leoch International Technology Ltd.
www.leoch.com

Leoch Batteries Pte Ltd
www.leoch.sg

Leoch Battery Corporation
www.leochamericas.com

Leoch Europe S.A.
www.leoch.eu

Data above is recommended and the picture is only for battery effect display, Leoch reserve the final right of explanation.
© LEOCH. All rights reserved.Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.Subject to revisions without prior notice. E&OE.

Publication No.:LB-LHT2-800-PD-EN-V3.1-20260114