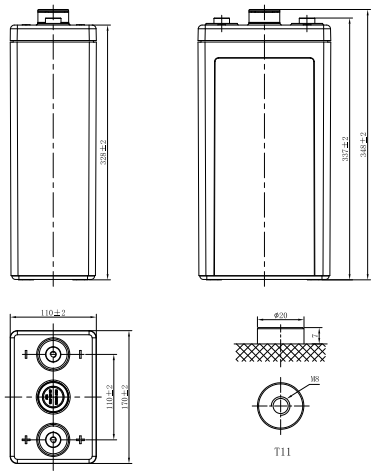
LHT SERIES-HIGH TEMPERATURE

LHT2-200 (2V200Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (35℃)	C_{10},1.80V/cell	200Ah
Dimension	Length	170mm (6.69inches)
	Width	110mm (4.33inches)
	Container Height	328mm (12.9inches)
	Total Height	348mm (13.7inches)
Approx Weight		13.5kg (29.8lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 V-0)
Short-circuit current		3000A
Internal Resistance (35℃)		Approx 0.9 mΩ (Fully charged)
Operating Temp. Range	Discharge	-40~65℃ (-40~149°F)
	Charge	-20~45℃ (-4~113°F)
	Storage	-20~50℃ (-4~122°F)
Nominal Operating Temp. Range		25±10℃ (77±18°F)
Max.Charging Current (35℃)		0.25C
Charge voltage (35℃)	Float Charge	Equalization Charge
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-5mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	35℃ (95°F)	100%
	0℃ (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	126.0	110.1	96.3	61.5	46.8	37.7	31.8	27.6	22.4	18.7	10.0
1.80V/cell	144.7	123.1	106.6	66.9	50.6	40.6	34.2	29.6	24.0	20.0	10.6
1.75V/cell	151.4	128.1	110.5	69.0	52.0	41.6	35.0	30.2	24.4	20.3	10.7
1.70V/cell	161.2	132.9	114.6	71.2	53.5	42.6	35.8	30.9	24.9	20.6	10.9
1.67V/cell	165.6	135.9	117.0	72.4	54.3	43.2	36.2	31.2	25.1	20.8	11.0
1.60V/cell	168.7	142.9	122.7	75.4	56.3	44.7	37.4	32.1	25.7	21.3	11.1
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	231.3	213.4	187.2	120.3	91.8	74.0	62.5	54.4	44.3	37.1	20.0
1.80V/cell	263.4	236.9	205.8	130.2	98.9	79.5	67.2	58.2	47.3	39.5	21.1
1.75V/cell	273.2	244.6	211.9	133.4	101.1	81.2	68.5	59.2	48.1	40.1	21.3
1.70V/cell	288.2	251.9	218.2	137.0	103.6	82.9	69.8	60.4	48.8	40.6	21.6
1.67V/cell	293.3	256.3	221.7	138.8	104.8	83.9	70.6	61.0	49.3	40.9	21.7
1.60V/cell	296.1	266.7	230.3	143.5	108.1	86.2	72.4	62.4	50.3	41.7	22.1

LHT SERIES-HIGH TEMPERATURE

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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

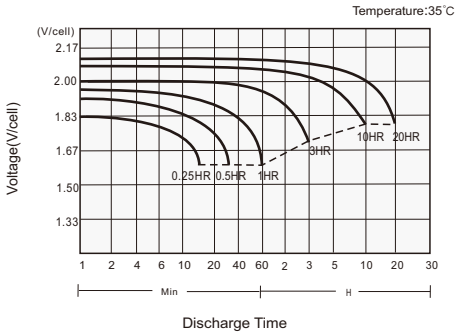
GENERAL FEATURES

- 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

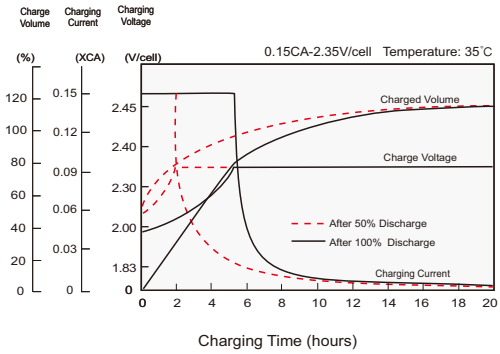
STANDARDS

- 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

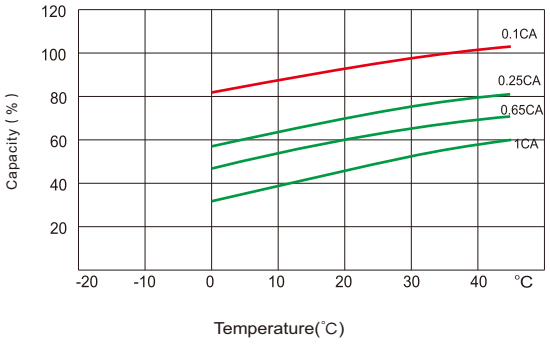
Discharge Characteristics



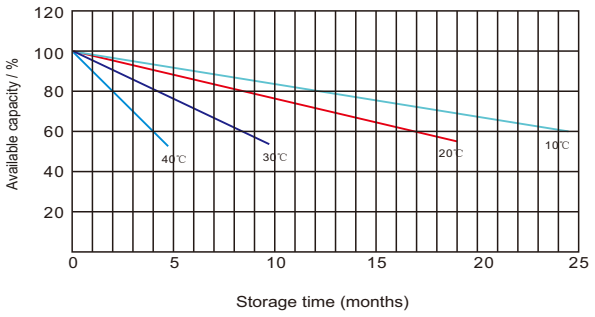
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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