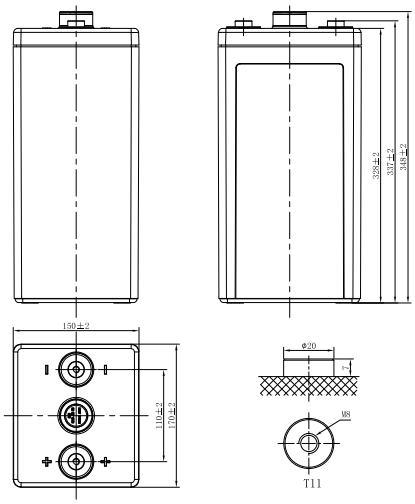
LHT SERIES-HIGH TEMPERATURE

LHT2-300 (2V300Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (35˚C)	C_{10},1.80V/cell	300Ah
Dimension	Length	170mm (6.69inches)
	Width	150mm (5.91inches)
	Container Height	328mm (12.9inches)
	Total Height	348mm (13.7inches)
Approx Weight		18.8kg (41.4lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 V-0)
Short-circuit current		3900A
Internal Resistance (35˚C)		Approx 0.8 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	189.0	165.1	144.5	92.3	70.2	56.5	47.7	41.4	33.6	28.1	15.1
1.80V/cell	217.0	184.6	159.9	100.4	76.0	60.9	51.3	44.4	36.0	30.0	15.9
1.75V/cell	227.1	192.1	165.8	103.5	78.0	62.4	52.5	45.3	36.7	30.5	16.1
1.70V/cell	241.7	199.4	171.9	106.8	80.3	64.0	53.7	46.3	37.3	30.9	16.3
1.67V/cell	248.4	203.9	175.5	108.6	81.5	64.9	54.4	46.8	37.7	31.2	16.4
1.60V/cell	253.1	214.4	184.0	113.1	84.5	67.0	56.0	48.1	38.6	31.9	16.7
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	347.0	320.1	280.9	180.4	137.7	111.0	93.8	81.6	66.4	55.6	30.0
1.80V/cell	395.2	355.3	308.7	195.3	148.4	119.2	100.8	87.3	71.0	59.3	31.6
1.75V/cell	409.9	366.9	317.9	200.2	151.7	121.7	102.7	88.9	72.1	60.1	32.0
1.70V/cell	432.3	377.9	327.3	205.5	155.4	124.4	104.8	90.5	73.3	60.9	32.3
1.67V/cell	439.9	384.4	332.5	208.2	157.3	125.8	105.8	91.5	73.9	61.4	32.6
1.60V/cell	444.2	400.0	345.4	215.3	162.1	129.3	108.6	93.6	75.4	62.6	33.1

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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

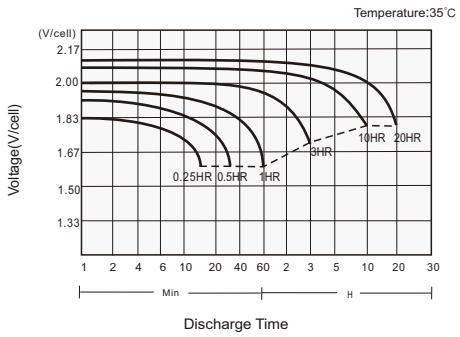
GENERAL FEATURES

- 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

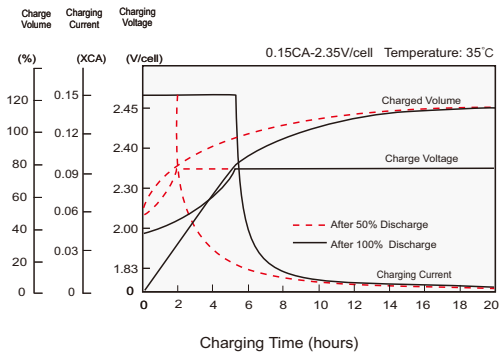
STANDARDS

- 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

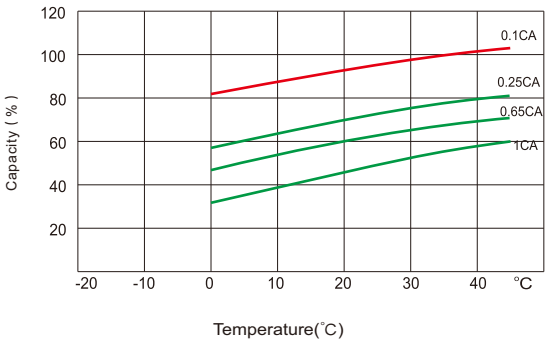
Discharge Characteristics



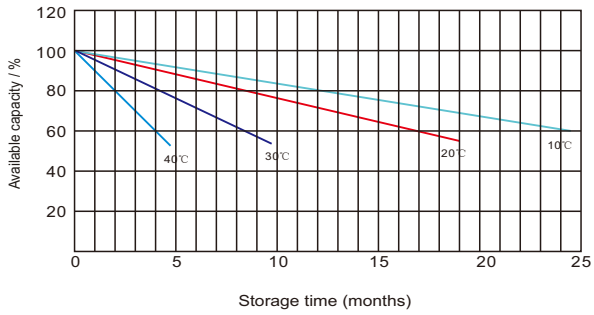
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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