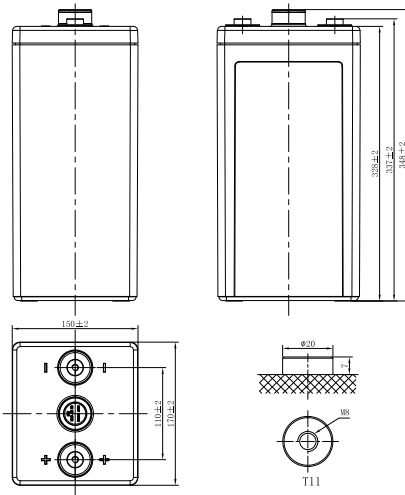


# LHT SERIES-HIGH TEMPERATURE

## LHT2-300 (2V300Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (35°C)	C <sub>10</sub> , 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)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coefficient	-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	205.2	168.0	141.3	93.6	72.2	58.3	49.1	42.9	34.2	28.7	15.2
1.80V/cell	226.2	182.4	153.2	99.9	75.8	60.8	51.2	44.4	35.6	30.0	15.9
1.75V/cell	247.8	198.8	167.3	105.6	79.5	63.8	53.3	46.1	36.6	30.6	16.2
1.70V/cell	266.4	210.8	177.0	110.9	83.0	66.0	54.9	47.5	37.7	31.4	16.6
1.67V/cell	282.0	220.0	184.5	115.2	85.6	67.9	56.4	48.6	38.2	31.9	16.9
1.60V/cell	294.6	229.6	192.3	119.6	87.7	69.4	57.5	49.5	38.9	32.2	17.0
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	392.2	323.0	273.3	182.1	141.1	114.3	96.8	84.7	67.9	57.0	30.2
1.80V/cell	428.8	348.4	294.6	193.4	147.4	118.7	100.4	87.4	70.5	59.6	31.6
1.75V/cell	466.2	377.5	320.3	203.6	154.2	124.2	104.1	90.4	72.2	60.7	32.2
1.70V/cell	497.0	397.5	337.1	212.8	160.4	128.0	106.9	93.1	74.3	62.1	33.0
1.67V/cell	522.2	412.5	349.5	220.3	164.8	131.2	109.5	94.9	75.1	63.1	33.5
1.60V/cell	540.0	426.5	361.8	227.1	167.8	133.5	111.3	96.4	76.3	63.5	33.7

# LHT SERIES-HIGH TEMPERATURE

## LHT2-300 (2V300Ah)



### 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

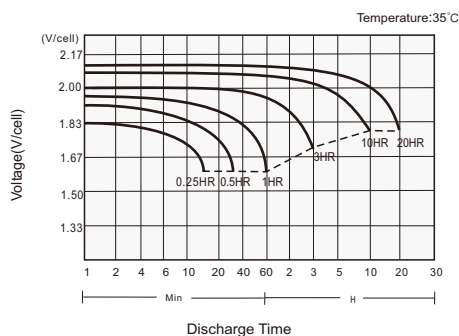
### GENERAL FEATURES

- Design life up to 15 years at 35°C
- 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

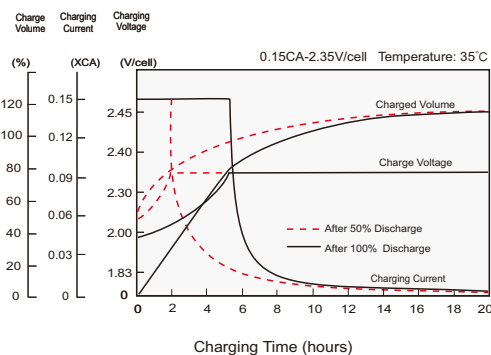
### STANDARDS

- 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

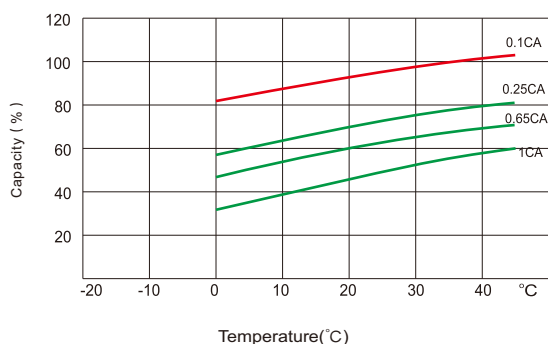
#### Discharge Characteristics



#### Charging Characteristics



#### Temperature Effects in Relation to Battery Capacity



#### Self Discharge Characteristics

