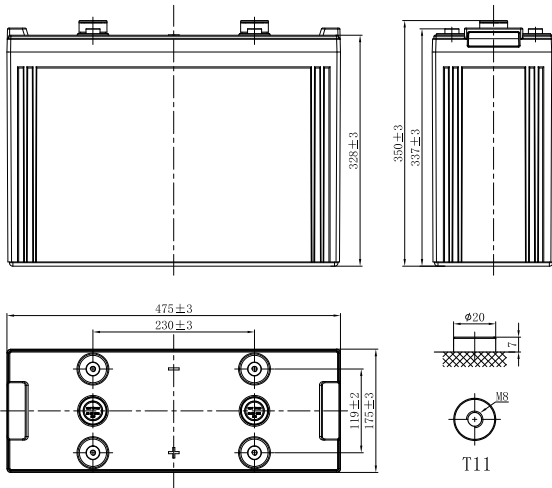
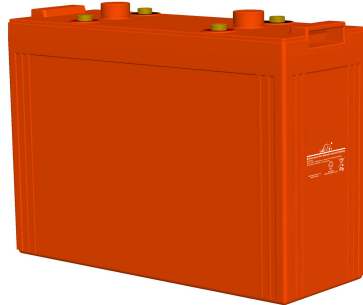


# LHT SERIES-HIGH TEMPERATURE

## LHT2-1000 (2V1000Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (35°C)	C <sub>10</sub> , 1.80V/cell	1000Ah
Dimension	Length	475mm (18.7inches)
	Width	175mm (6.89inches)
	Container Height	328mm (12.9inches)
	Total Height	350mm (13.8inches)
Approx Weight	60.0kg (132.3lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 V-0)	
Short-circuit current	11000A	
Internal Resistance (35°C)	Approx 0.3 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	684.0	560.0	471.0	312.0	240.6	194.3	163.8	142.8	114.0	95.6	50.6
1.80V/cell	754.0	608.0	510.6	333.0	252.6	202.5	170.6	148.0	118.8	100.0	53.0
1.75V/cell	826.0	662.7	557.6	352.0	265.0	212.5	177.6	153.5	122.0	102.0	54.1
1.70V/cell	888.0	702.7	589.9	369.5	276.7	220.0	182.9	158.3	125.6	104.5	55.4
1.67V/cell	940.0	733.3	615.0	384.0	285.5	226.3	187.9	162.0	127.3	106.2	56.3
1.60V/cell	982.0	765.3	641.1	398.5	292.2	231.3	191.8	165.0	129.5	107.2	56.7
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	1307.2	1076.7	911.1	606.9	470.2	381.0	322.7	282.2	226.2	190.1	100.8
1.80V/cell	1429.4	1161.3	982.1	644.6	491.4	395.8	334.6	291.3	234.9	198.6	105.4
1.75V/cell	1554.0	1258.3	1067.8	678.7	514.1	414.0	347.1	301.2	240.8	202.3	107.3
1.70V/cell	1656.6	1324.9	1123.8	709.4	534.7	426.8	356.4	310.2	247.7	207.1	109.9
1.67V/cell	1740.5	1375.0	1164.9	734.2	549.3	437.5	364.9	316.4	250.3	210.2	111.6
1.60V/cell	1800.0	1421.6	1205.9	757.2	559.3	445.2	371.1	321.3	254.2	211.8	112.2

# LHT SERIES-HIGH TEMPERATURE

## LHT2-1000 (2V1000Ah)



### 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

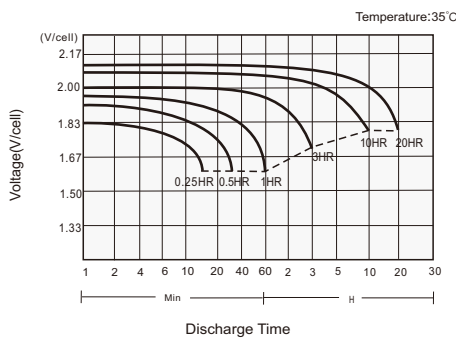
### GENERAL FEATURES

- 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

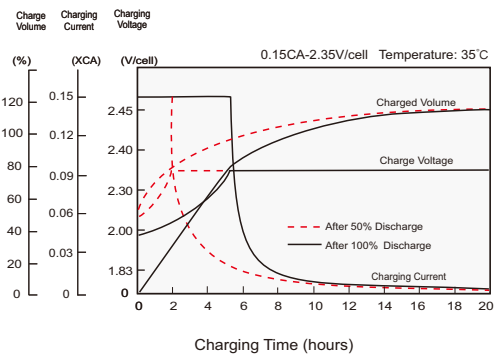
### STANDARDS

- 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

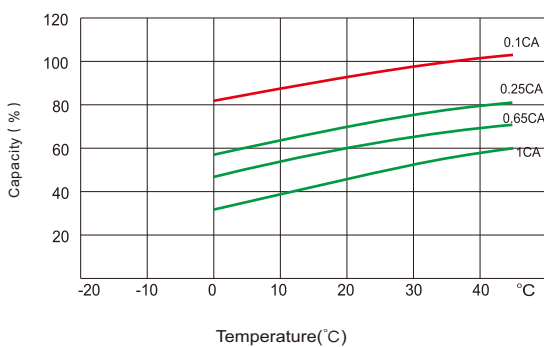
#### Discharge Characteristics



#### Charging Characteristics



#### Temperature Effects in Relation to Battery Capacity



#### Self Discharge Characteristics

