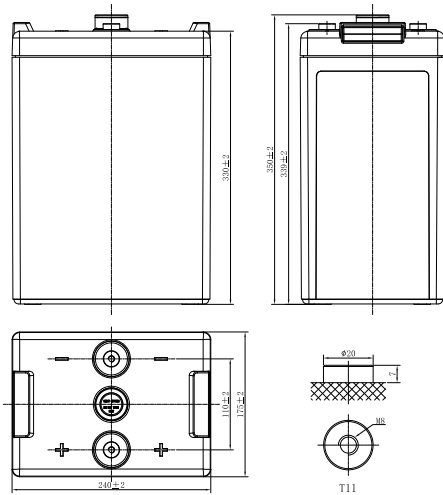


LHT SERIES-HIGH TEMPERATURE

LHT2-500 (2V500Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (35°C)	C ₁₀ , 1.80V/cell	500Ah
Dimension	Length	240mm (9.45inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	350mm (13.8inches)
Approx Weight	30.0kg (66.1lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 V-0)	
Short-circuit current	6000A	
Internal Resistance (35°C)	Approx 0.55 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	342.0	280.0	235.5	156.0	120.3	97.1	81.9	71.4	57.0	47.8	25.3
1.80V/cell	377.0	304.0	255.3	166.5	126.3	101.3	85.3	74.0	59.4	50.0	26.5
1.75V/cell	413.0	331.3	278.8	176.0	132.5	106.3	88.8	76.8	61.0	51.0	27.0
1.70V/cell	444.0	351.3	295.0	184.8	138.3	110.0	91.4	79.2	62.8	52.3	27.7
1.67V/cell	470.0	366.7	307.5	192.0	142.7	113.1	94.0	81.0	63.6	53.1	28.1
1.60V/cell	491.0	382.7	320.6	199.3	146.1	115.6	95.9	82.5	64.8	53.6	28.4
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	653.6	538.4	455.5	303.4	235.1	190.5	161.3	141.1	113.1	95.1	50.4
1.80V/cell	714.7	580.6	491.1	322.3	245.7	197.9	167.3	145.6	117.5	99.3	52.7
1.75V/cell	777.0	629.1	533.9	339.3	257.1	207.0	173.6	150.6	120.4	101.2	53.7
1.70V/cell	828.3	662.5	561.9	354.7	267.4	213.4	178.2	155.1	123.9	103.6	55.0
1.67V/cell	870.3	687.5	582.4	367.1	274.7	218.7	182.5	158.2	125.2	105.1	55.8
1.60V/cell	900.0	710.8	603.0	378.6	279.7	222.6	185.5	160.6	127.1	105.9	56.1

LHT SERIES-HIGH TEMPERATURE

LHT2-500 (2V500Ah)



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

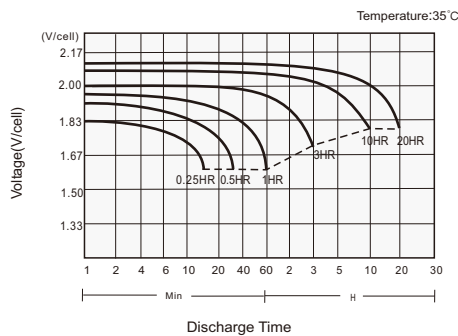
GENERAL FEATURES

- 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

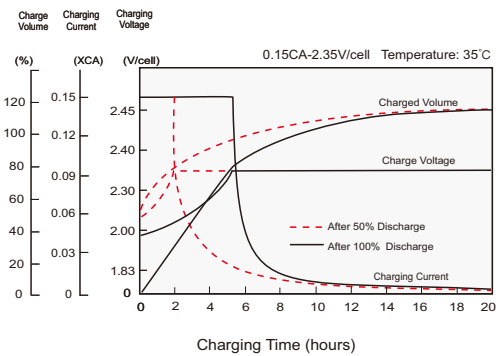
STANDARDS

- 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

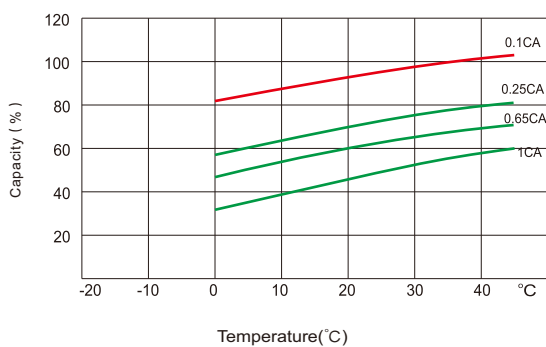
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

