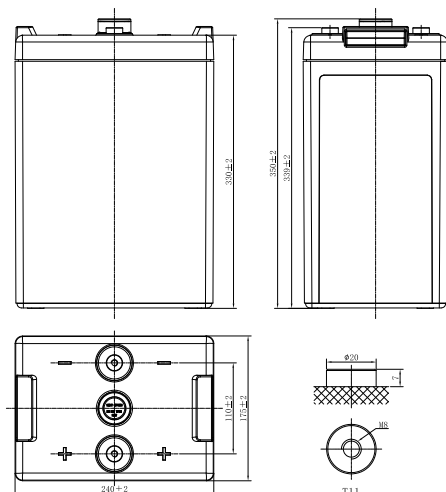


LHT SERIES-HIGH TEMPERATURE

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)	Float Charge	Equalization Charge
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	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	315.0	275.1	240.8	153.8	117.0	94.1	79.4	69.0	56.0	46.9	25.1
1.80V/cell	361.7	307.7	266.5	167.4	126.6	101.5	85.6	74.0	60.0	50.0	26.5
1.75V/cell	378.5	320.2	276.4	172.5	130.0	104.0	87.5	75.5	61.1	50.8	26.8
1.70V/cell	402.9	332.3	286.5	178.0	133.8	106.6	89.5	77.1	62.2	51.6	27.2
1.67V/cell	414.1	339.8	292.5	181.0	135.8	108.1	90.6	78.1	62.8	52.0	27.4
1.60V/cell	421.8	357.3	306.7	188.5	140.8	111.7	93.4	80.2	64.3	53.1	27.9
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	578.4	533.5	468.1	300.6	229.5	185.0	156.4	136.0	110.7	92.7	49.9
1.80V/cell	658.6	592.2	514.5	325.5	247.3	198.7	167.9	145.5	118.3	98.8	52.6
1.75V/cell	683.2	611.5	529.8	333.6	252.8	202.9	171.2	148.1	120.2	100.2	53.3
1.70V/cell	720.5	629.8	545.5	342.5	258.9	207.3	174.6	150.9	122.1	101.6	53.9
1.67V/cell	733.2	640.7	554.2	347.0	262.1	209.6	176.4	152.4	123.2	102.4	54.3
1.60V/cell	740.4	666.6	575.7	358.8	270.2	215.5	181.0	156.1	125.7	104.3	55.2

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

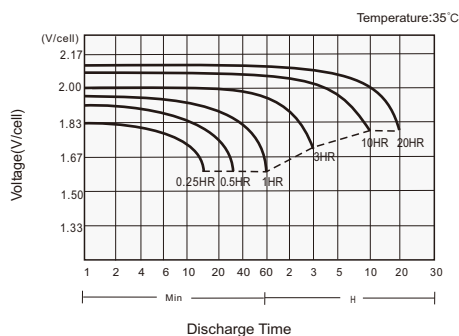
GENERAL FEATURES

- 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

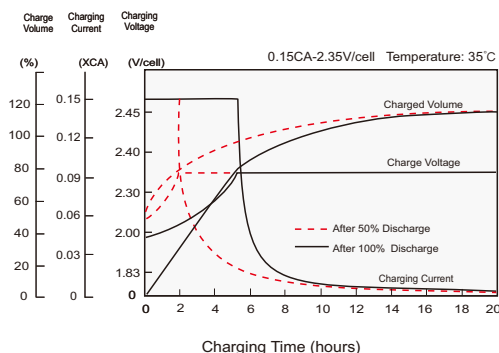
STANDARDS

- 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

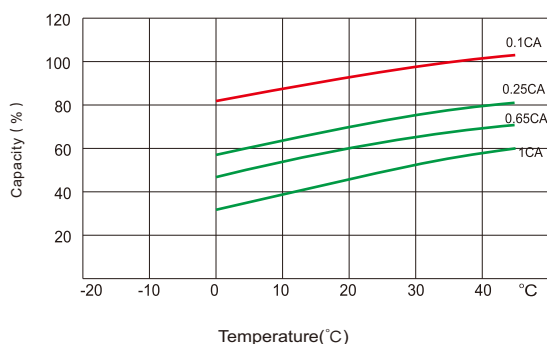
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

