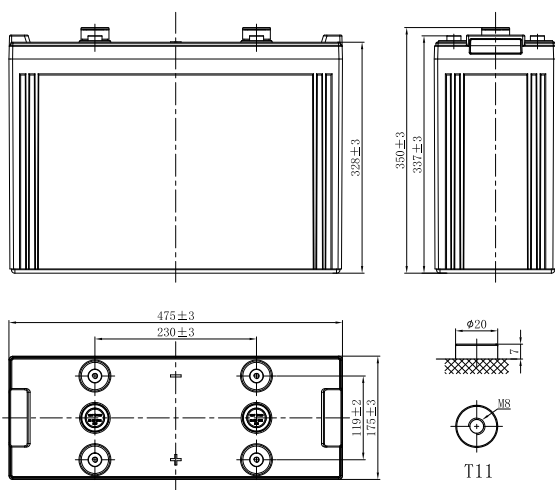


LHT SERIES-HIGH TEMPERATURE

LHT2-1000 (2V1000Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (35°C)	$C_{10}, 1.80V/\text{cell}$	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)	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	630.0	550.3	481.6	307.7	234.1	188.3	158.9	137.9	112.1	93.7	50.2
1.80V/cell	723.6	615.3	533.0	334.7	253.2	202.9	171.1	147.9	120.0	100.0	53.0
1.75V/cell	757.1	640.3	552.7	345.0	260.0	208.0	175.0	151.0	122.2	101.6	53.7
1.70V/cell	805.9	664.6	573.0	356.0	267.6	213.2	179.0	154.3	124.4	103.1	54.4
1.67V/cell	828.2	679.6	585.0	362.0	271.6	216.2	181.2	156.1	125.6	104.0	54.8
1.60V/cell	843.7	714.7	613.5	377.0	281.6	223.4	186.8	160.5	128.6	106.3	55.7
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	1156.9	1067.0	936.2	601.3	458.9	370.0	312.7	271.9	221.5	185.4	99.9
1.80V/cell	1317.4	1184.4	1029.1	650.9	494.5	397.4	335.8	290.9	236.6	197.6	105.3
1.75V/cell	1366.4	1223.1	1059.6	667.2	505.5	405.8	342.4	296.2	240.5	200.3	106.6
1.70V/cell	1441.1	1259.5	1090.9	684.9	517.9	414.6	349.2	301.8	244.2	203.1	107.8
1.67V/cell	1466.5	1281.4	1108.4	693.9	524.2	419.3	352.8	304.8	246.4	204.7	108.6
1.60V/cell	1480.8	1333.3	1151.4	717.5	540.4	431.1	362.0	312.1	251.5	208.5	110.4

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

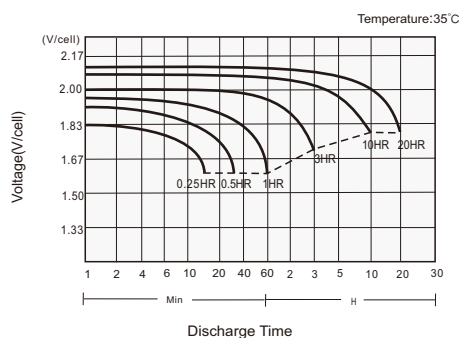
GENERAL FEATURES

- 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

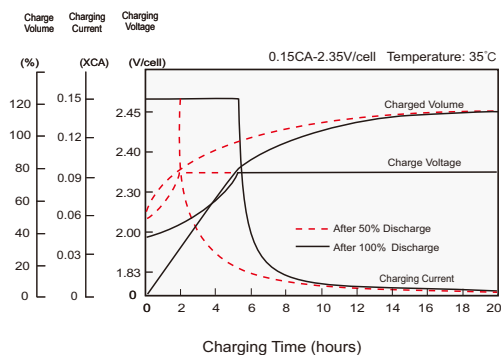
STANDARDS

- 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

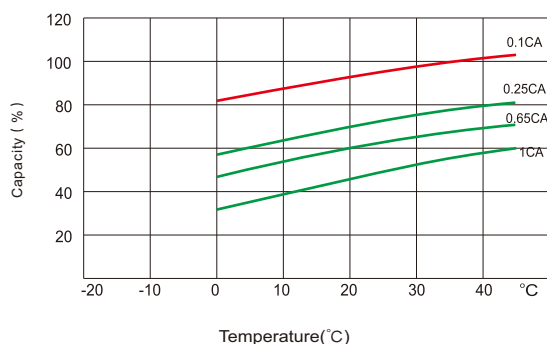
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

