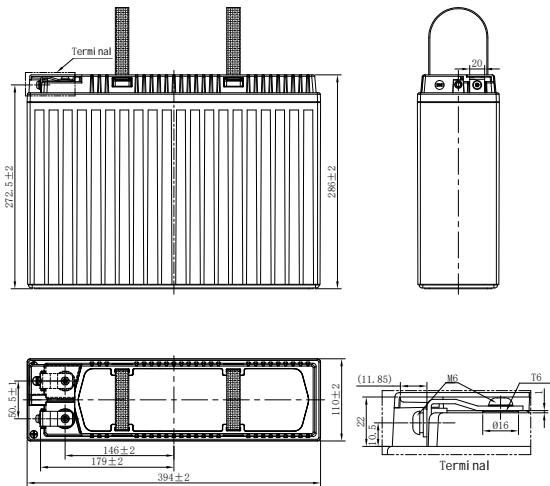
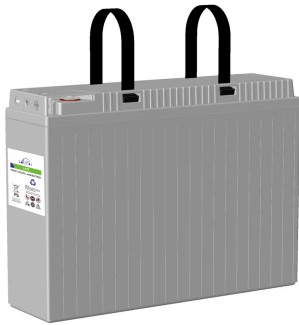


LHT SERIES-HIGH TEMPERATURE

LHTF12-100 (12V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (35°C)	$C_{10}, 1.80V/cell$	100Ah
Dimension	Length	394mm (15.5inches)
	Width	110mm (4.33inches)
	Container Height	286mm (11.3inches)
	Total Height	286mm (11.3inches)
Approx Weight	31.5kg (69.4lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 V-0)	
Short-circuit current	1900A	
Internal Resistance (35°C)	Approx 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
	40°C (104°F)	103%
Effect of temp. to Capacity	35°C (95°F)	100%
	0°C (32°F)	86%
	LHT series batteries may 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.	
Self Discharge		

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	83.6	62.4	52.7	31.6	23.9	19.0	15.9	13.8	11.2	9.37	5.02
1.80V/cell	94.5	69.7	58.3	34.4	25.8	20.5	17.1	14.8	12.0	10.0	5.25
1.75V/cell	98.8	72.6	60.5	35.5	26.5	21.0	17.5	15.1	12.2	10.2	5.32
1.70V/cell	103.1	75.3	62.7	36.6	27.3	21.5	17.9	15.4	12.4	10.3	5.39
1.67V/cell	105.7	77.0	64.0	37.2	27.7	21.8	18.1	15.6	12.6	10.4	5.46
1.60V/cell	111.7	81.0	67.1	38.8	28.7	22.6	18.7	16.0	12.9	10.6	5.57

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	161.5	120.9	102.4	61.8	46.8	37.4	31.3	27.2	22.1	18.5	10.0
1.80V/cell	181.1	134.2	112.6	66.9	50.4	40.1	33.6	29.1	23.7	19.8	10.5
1.75V/cell	187.7	138.6	115.9	68.6	51.5	41.0	34.2	29.6	24.0	20.0	10.7
1.70V/cell	194.2	142.8	119.4	70.4	52.8	41.9	34.9	30.2	24.4	20.3	10.8
1.67V/cell	198.0	145.2	121.3	71.3	53.4	42.3	35.3	30.5	24.6	20.5	10.9
1.60V/cell	206.5	151.1	126.0	73.8	55.1	43.5	36.2	31.2	25.1	20.9	11.0

LHT SERIES-HIGH TEMPERATURE

LHTF12-100 (12V100Ah)



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

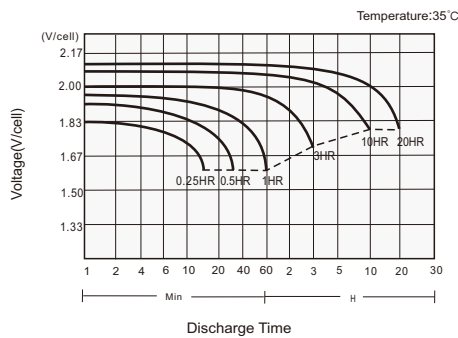
GENERAL FEATURES

- Design life up to 10 years at 35°C
- Specifically formulated heat resistant plastic case and cover optimizes compression, resists bulging and meets safety requirements (UL 94 V-0)
- Unique alloy inhibits corrosion under the highest temperature extremes
- Puncture resistant micro-porous glass mat separators extend life
- Front access design for easy installation and maintenance

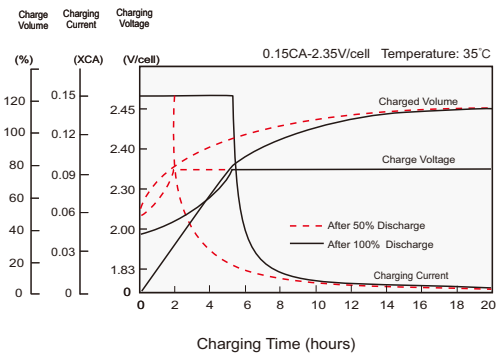
STANDARDS

- Compliance with IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

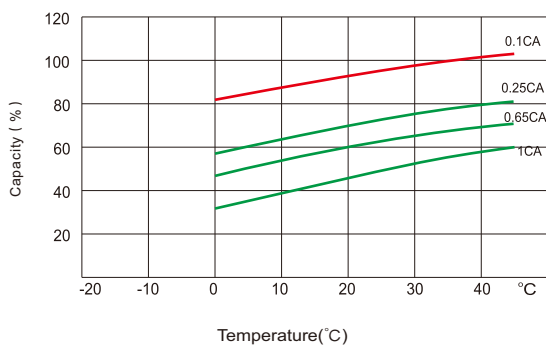
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

