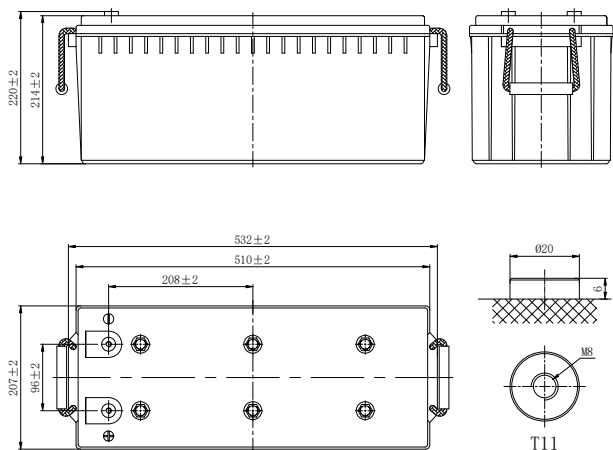


LHT SERIES-HIGH TEMPERATURE

LHT12-150 (12V150Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (35°C)	$C_{10}, 1.80V/\text{cell}$	150Ah
Dimension	Length	532mm (20.9inches)
	Width	207mm (8.15inches)
	Container Height	214mm (8.43inches)
	Total Height	220mm (8.66inches)
Approx Weight	56.0kg (123.5lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 V-0)	
Short-circuit current	3000A	
Internal Resistance (35°C)	Approx 7 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	114.0	86.3	70.7	45.1	35.6	29.1	23.4	20.4	16.6	14.2	7.72
1.80V/cell	134.6	100.4	79.2	49.1	38.3	31.1	25.2	21.9	17.6	15.0	7.80
1.75V/cell	139.7	104.2	82.9	51.0	39.0	31.7	25.8	22.5	17.9	15.1	7.87
1.70V/cell	145.4	108.4	85.5	53.0	40.2	32.6	26.5	23.0	18.1	15.3	8.02
1.67V/cell	153.4	111.0	88.3	54.5	41.8	33.7	27.2	23.5	18.4	15.6	8.13
1.60V/cell	161.9	115.8	91.5	56.3	43.1	34.8	28.1	24.0	18.6	15.8	8.17
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	217.4	165.9	136.4	87.5	69.4	56.8	46.0	40.1	32.7	28.0	15.3
1.80V/cell	252.6	191.5	151.9	94.8	74.2	60.4	49.1	42.9	34.6	29.6	15.4
1.75V/cell	260.1	196.8	158.2	98.0	75.3	61.5	50.2	43.9	35.1	29.9	15.6
1.70V/cell	269.2	203.9	162.7	101.6	77.3	63.1	51.4	44.7	35.6	30.2	15.8
1.67V/cell	281.6	207.2	166.9	103.9	80.2	65.0	52.6	45.6	36.0	30.7	16.0
1.60V/cell	295.3	214.7	171.9	106.8	82.3	66.8	54.2	46.4	36.3	31.0	16.1

LHT SERIES-HIGH TEMPERATURE

LHT12-150 (12V150Ah)



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

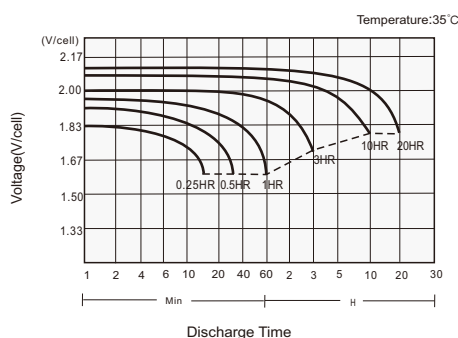
GENERAL FEATURES

- 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
- Epoxy-sealed posts eliminate leaks

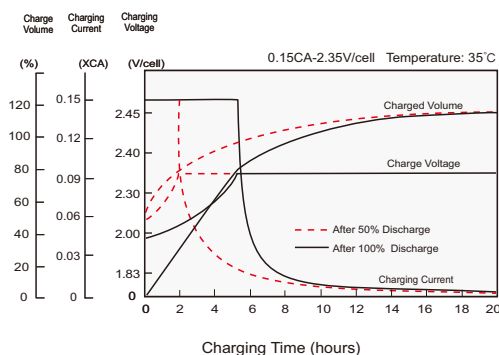
STANDARDS

- Compliance with IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in Leoch® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

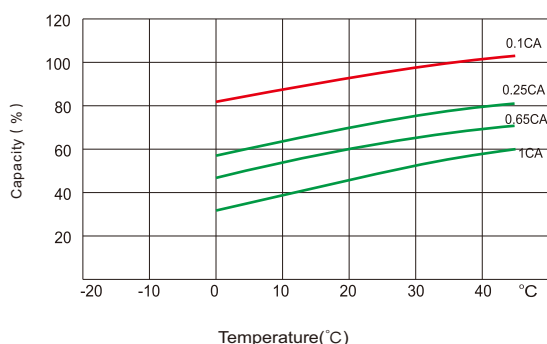
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

