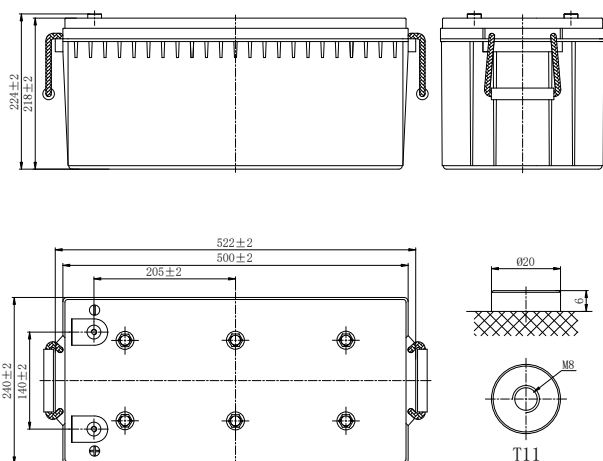


LHT SERIES-HIGH TEMPERATURE

LHT12-200 (12V200Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (35°C)	C ₁₀ , 1.80V/cell	200Ah
Dimension	Length	522mm (20.6inches)
	Width	240mm (9.45inches)
	Container Height	218mm (8.58inches)
	Total Height	224mm (8.82inches)
Approx Weight	67.4kg (148.6lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 V-0)	
Short-circuit current	3600A	
Internal Resistance (35°C)	Approx 6 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	144.8	111.7	95.6	61.9	46.5	38.1	32.1	28.1	22.5	19.4	10.3
1.80V/cell	157.3	120.5	100.9	66.5	50.0	40.5	34.0	29.8	23.7	20.0	10.7
1.75V/cell	170.9	131.5	110.0	69.2	52.0	41.9	34.8	30.7	24.5	20.5	11.0
1.70V/cell	186.6	141.6	116.4	72.9	54.7	43.8	36.8	32.2	25.6	21.3	11.3
1.67V/cell	196.9	149.9	120.4	75.6	56.9	45.5	38.0	33.3	26.4	21.9	11.6
1.60V/cell	210.1	155.7	124.0	77.5	58.4	46.5	38.9	34.0	26.9	22.4	11.8
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	278.9	217.0	186.3	121.4	91.7	75.3	63.5	55.8	45.0	38.7	20.7
1.80V/cell	298.3	232.3	195.6	129.7	97.9	79.6	67.0	58.9	47.2	39.9	21.4
1.75V/cell	321.5	251.0	212.3	134.4	101.4	82.1	68.4	60.6	48.6	40.9	21.9
1.70V/cell	349.1	269.3	223.9	141.3	106.6	85.6	72.2	63.4	50.6	42.5	22.4
1.67V/cell	365.4	282.5	230.0	145.6	110.4	88.6	74.2	65.4	52.2	43.6	23.1
1.60V/cell	387.2	292.0	235.6	148.6	112.7	90.3	75.8	66.5	53.0	44.4	23.4

LHT SERIES-HIGH TEMPERATURE

LHT12-200 (12V200Ah)



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

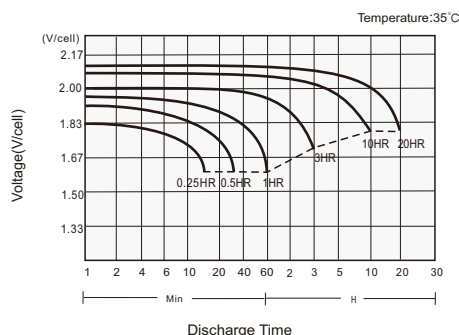
GENERAL FEATURES

- 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

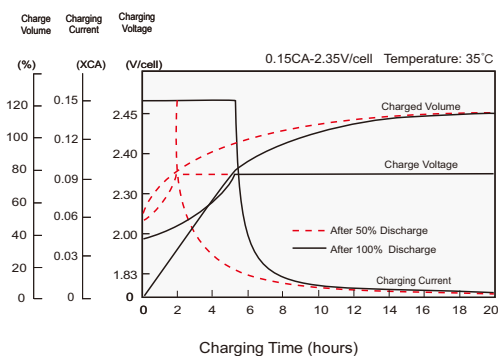
STANDARDS

- 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

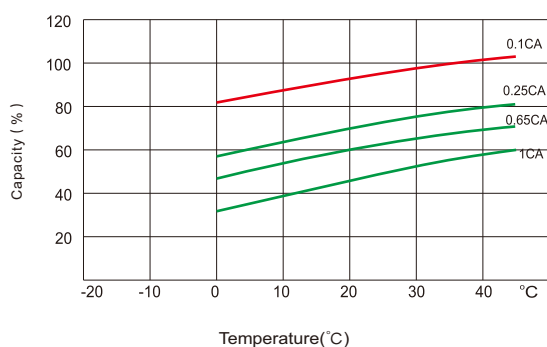
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

