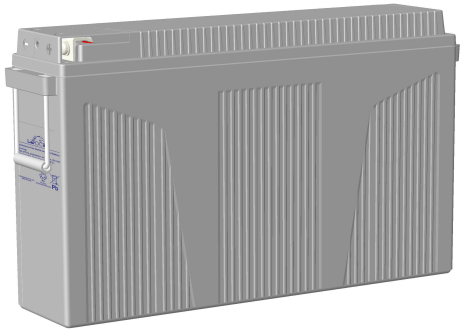
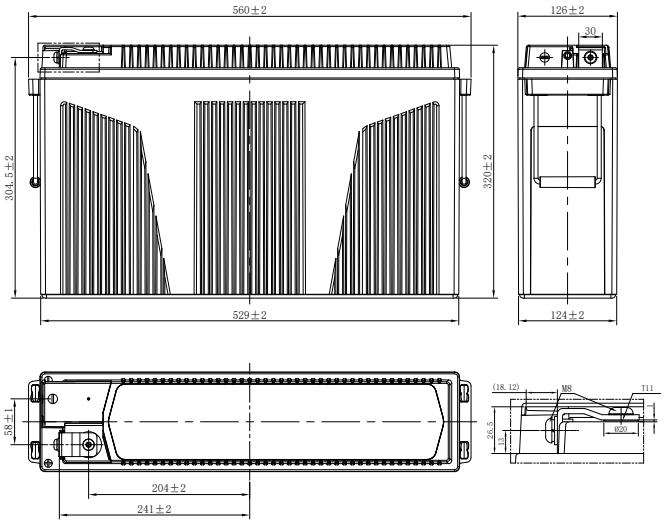
LHT SERIES-HIGH TEMPERATURE

LHTF12-200 (12V200Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (35˚C)	C_{20},1.80V/cell	200Ah
Dimension	Length	560mm (22.0inches)
	Width	126mm (4.96inches)
	Container Height	320mm (12.6inches)
	Total Height	320mm (12.6inches)
Approx Weight		59.5kg (131.2lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 V-0)
Short-circuit current		3420A
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)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	35˚C (95°F)	100%
	0˚C (32°F)	86%
Self Discharge	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.	

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	167.2	124.7	105.4	63.3	47.7	38.0	31.8	27.6	22.0	17.8	9.50
1.80V/cell	189.0	139.5	116.6	68.8	51.6	41.0	34.2	29.6	23.5	19.0	10.0
1.75V/cell	197.5	145.2	120.9	70.9	53.0	42.0	35.0	30.2	23.9	19.3	10.2
1.70V/cell	206.2	150.7	125.4	73.2	54.6	43.1	35.8	30.9	24.4	19.6	10.4
1.67V/cell	211.4	154.0	128.0	74.4	55.4	43.7	36.2	31.2	24.6	19.8	10.5
1.60V/cell	223.4	162.0	134.2	77.5	57.4	45.1	37.4	32.1	25.2	20.2	10.6

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	323.1	241.9	204.8	123.6	93.5	74.7	62.5	54.4	43.4	35.2	19.0
1.80V/cell	362.2	268.5	225.2	133.8	100.8	80.2	67.2	58.2	46.4	37.5	19.9
1.75V/cell	375.4	277.2	231.8	137.2	103.0	81.9	68.5	59.2	47.1	38.1	20.3
1.70V/cell	388.4	285.5	238.7	140.8	105.6	83.7	69.8	60.4	47.8	38.6	20.6
1.67V/cell	396.0	290.5	242.5	142.7	106.9	84.7	70.6	61.0	48.3	38.9	20.7
1.60V/cell	413.0	302.2	251.9	147.5	110.2	87.0	72.4	62.4	49.3	39.6	21.0

LHT SERIES-HIGH TEMPERATURE

LHTF12-200 (12V200Ah)

LEOCH BATTERY

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

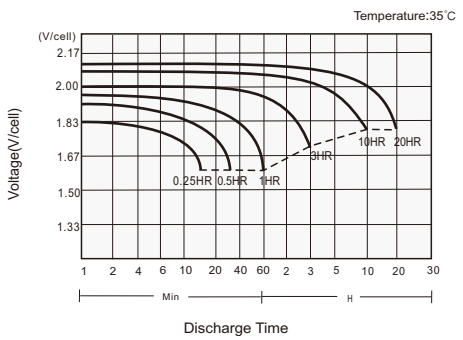
GENERAL FEATURES

- Design life up to 10 years at 35℃
- 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

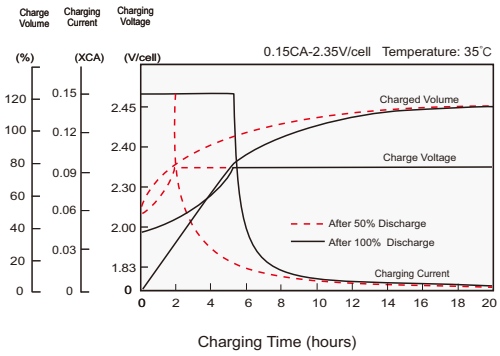
STANDARDS

- 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

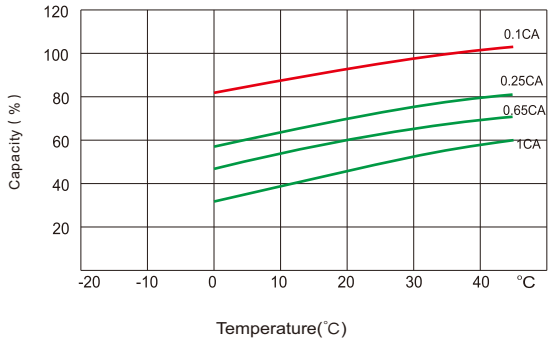
Discharge Characteristics



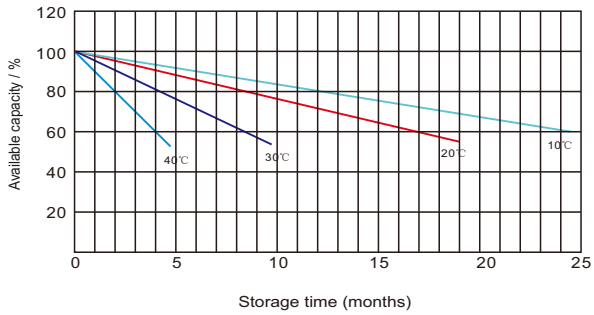
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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