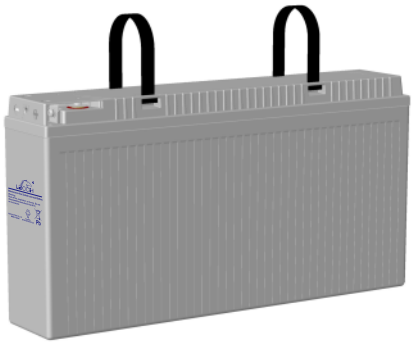
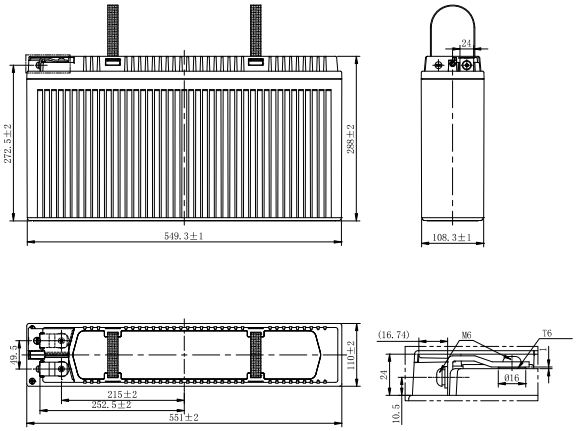
LHT SERIES-HIGH TEMPERATURE

LHTF12-150 (12V150Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (35˚C)	C_{10},1.80V/cell	150Ah
Dimension	Length	551mm (21.7inches)
	Width	110mm (4.33inches)
	Container Height	288mm (11.3inches)
	Total Height	288mm (11.3inches)
Approx Weight		46.6kg (102.7lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 V-0)
Short-circuit current		2400A
Internal Resistance (35˚C)		Approx 4.8 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)	Float Charge	Equalization Charge
	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	125.4	93.6	79.0	47.4	35.8	28.5	23.8	20.7	16.8	14.1	7.53
1.80V/cell	141.7	104.6	87.5	51.6	38.7	30.7	25.7	22.2	18.0	15.0	7.95
1.75V/cell	148.1	108.9	90.7	53.2	39.8	31.5	26.3	22.7	18.3	15.2	8.05
1.70V/cell	154.7	113.0	94.0	54.9	40.9	32.3	26.8	23.1	18.7	15.5	8.15
1.67V/cell	158.6	115.5	96.0	55.8	41.5	32.7	27.2	23.4	18.8	15.6	8.21
1.60V/cell	167.6	121.5	100.7	58.1	43.1	33.8	28.0	24.1	19.3	15.9	8.36

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	242.3	181.4	153.6	92.7	70.2	56.0	46.9	40.8	33.2	27.8	15.0
1.80V/cell	271.7	201.4	168.9	100.4	75.6	60.2	50.4	43.6	35.5	29.6	15.8
1.75V/cell	281.5	207.9	173.9	102.9	77.3	61.5	51.4	44.4	36.1	30.1	16.0
1.70V/cell	291.3	214.1	179.0	105.6	79.2	62.8	52.4	45.3	36.6	30.5	16.2
1.67V/cell	297.0	217.8	181.9	107.0	80.1	63.5	52.9	45.7	37.0	30.7	16.3
1.60V/cell	309.8	226.7	188.9	110.7	82.6	65.3	54.3	46.8	37.7	31.3	16.6

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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

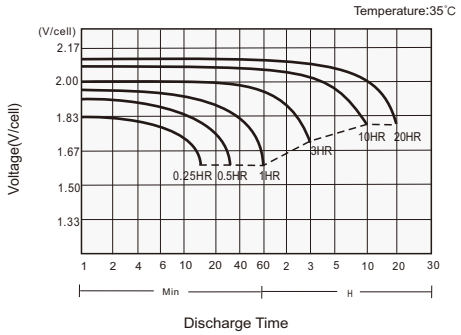
GENERAL FEATURES

- 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

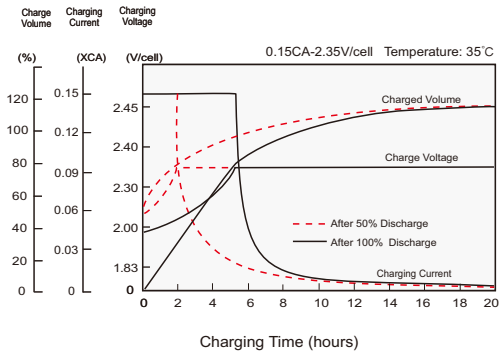
STANDARDS

- 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

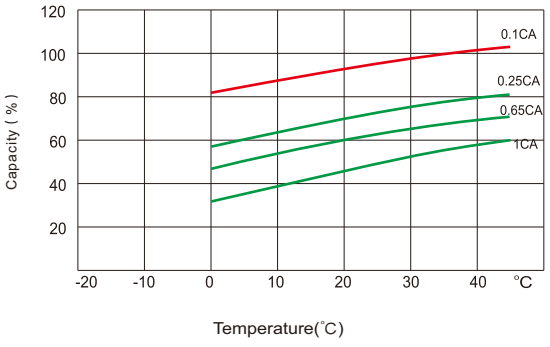
Discharge Characteristics



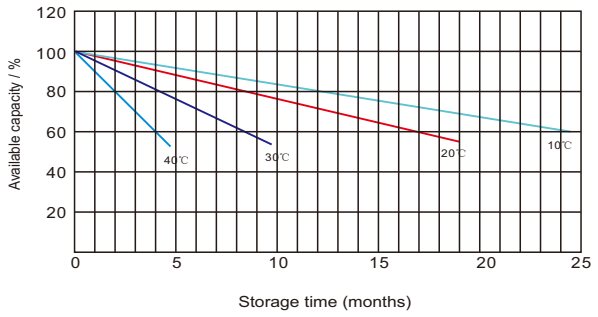
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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Publication No.:LB-LHTF12-150-PD-EN-V2.0-20250324