



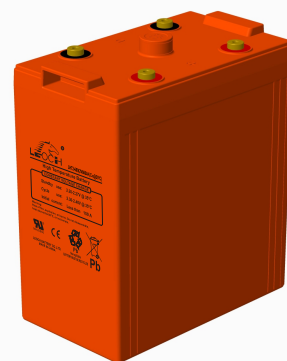
LHT Series-High Temperature

LHT2-600(2V600Ah)

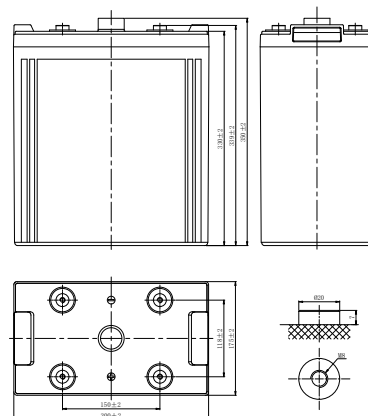


Specifications

Rated Voltage	2V	
Nominal Capacity	600Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	300±3mm (11.8 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.9 inches)
	Total Height	350±3mm (13.8 inches)
Approx Weight	37.0 Kg (81.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (35°C)	636.0 Ah	(20hr, 31.8A, 1.80V/cell)
	600.0 Ah	(10hr, 60.0A, 1.80V/cell)
	533.0 Ah	(5hr, 106.6A, 1.75V/cell)
	477.0 Ah	(3hr, 159.0A, 1.75V/cell)
	384.7 Ah	(1hr, 384.7A, 1.60V/cell)
Max. Discharge Current	4800A	
Internal Resistance (35°C)	Approx 0.4mΩ	
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±50°F)	
Cycle Use	Initial Charging Current less than 150A. Voltage 2.30V~2.40V at 35°C(95°F)Temp. Coefficient -5mV/°C	
	Initial Charging Current less than 150A. Voltage 2.20V~2.27V at 35°C(95°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 150A. Voltage 2.20V~2.27V at 35°C(95°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	35°C (95°F)	100%
	0°C (32°F)	79%
Self Discharge	LHT series batteries may be stored for up to 9 months at 35°C(95°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Layout



Constant Current Discharge (Amperes) at 35 °C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	700.0	594.0	542.2	487.8	410.4	336.0	282.6	187.2	144.4	116.6	98.3	85.7	68.4	57.4	30.4
1.80V/cell	852.0	694.8	617.8	549.0	452.4	364.8	306.4	199.8	151.6	121.5	102.4	88.8	71.3	60.0	31.8
1.75V/cell	995.8	799.2	699.0	615.6	495.6	397.6	334.5	211.2	159.0	127.5	106.6	92.1	73.2	61.2	32.4
1.70V/cell	1139.6	896.4	772.6	669.6	532.8	421.6	354.0	221.7	166.0	132.0	109.7	95.0	75.4	62.7	33.2
1.67V/cell	1223.5	964.8	832.8	720.0	564.0	440.0	369.0	230.4	171.3	135.8	112.7	97.2	76.4	63.7	33.8
1.60V/cell	1332.0	1033.2	883.2	756.0	589.2	459.2	384.7	239.1	175.3	138.8	115.1	99.0	77.7	64.3	34.0

Constant Power Discharge(Watts/cell) at 35 °C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1307.4	1117.5	1026.5	927.8	784.3	646.0	546.6	364.1	282.1	228.6	193.6	169.3	135.7	114.1	60.5
1.80V/cell	1565.2	1288.2	1154.7	1033.2	857.6	696.8	589.3	386.8	294.8	237.5	200.8	174.8	141.0	119.2	63.2
1.75V/cell	1797.4	1458.1	1287.9	1145.3	932.4	755.0	640.7	407.2	308.5	248.4	208.3	180.7	144.5	121.4	64.4
1.70V/cell	2022.8	1612.6	1409.0	1235.1	993.9	795.0	674.3	425.7	320.8	256.1	213.9	186.1	148.6	124.3	65.9
1.67V/cell	2132.5	1709.8	1499.9	1313.9	1044.3	825.0	698.9	440.5	329.6	262.5	218.9	189.8	150.2	126.1	66.9
1.60V/cell	2273.7	1795.2	1564.3	1363.8	1080.0	853.0	723.5	454.3	335.6	267.1	222.6	192.8	152.5	127.1	67.3



LHT Series-High Temperature

LHT2-600(2V600Ah)



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

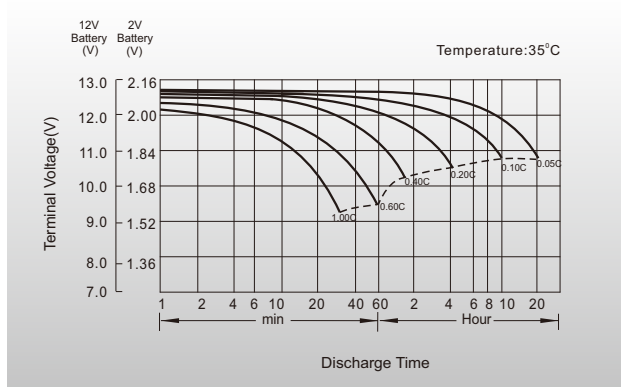
General Features

- Battery design life up to 15 years at 35°C
- Special anti-high-temperature paste formula
- Special anti-high-temperature container
- Special double sealing and anti-high-temperature sealing agent
- High performance separator and special electrolyte formula

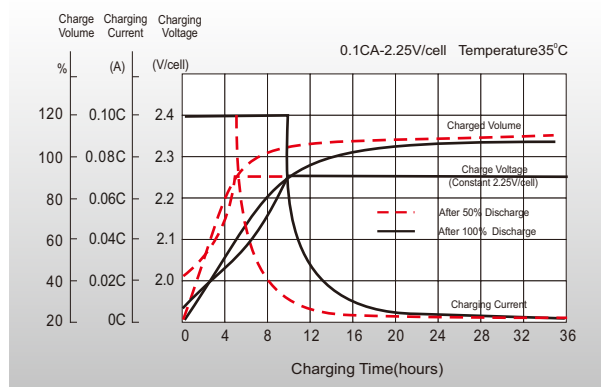
Standards

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

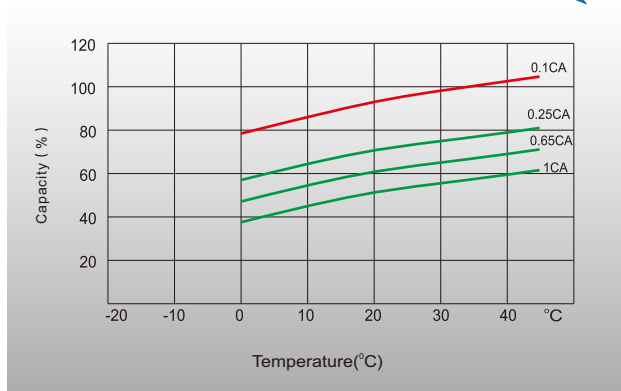
Discharge Characteristics



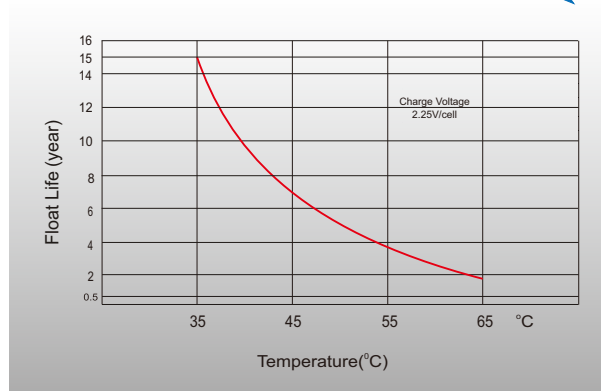
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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