



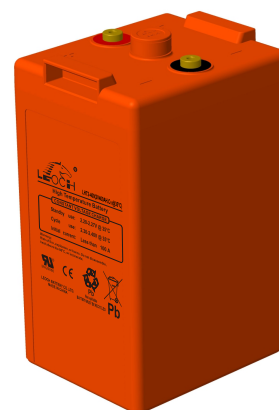
LHT Series-High Temperature

LHT2-400(2V400Ah)

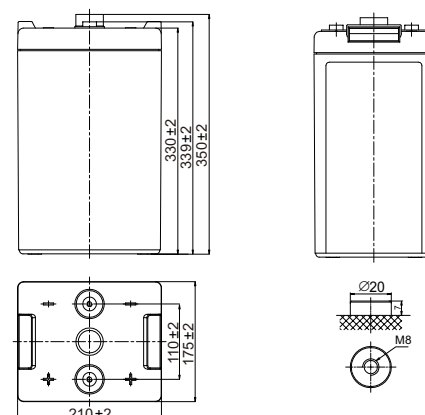


Specifications

Rated Voltage	2V	
Nominal Capacity	400Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	210±2mm (8.27 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±2mm (13.0 inches)
	Total Height	350±2mm (13.8 inches)
Approx Weight	25.5kg (56.2 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (35°C)	424.0 Ah	(20hr, 21.2A, 1.80V/cell)
	400.0 Ah	(10hr, 40.0A, 1.80V/cell)
	355.0 Ah	(5hr, 71.0A, 1.75V/cell)
	318.0 Ah	(3hr, 106.0A, 1.75V/cell)
	256.4 Ah	(1hr, 256.4A, 1.60V/cell)
Max. Discharge Current	3200A	
Internal Resistance (35°C)	Approx 0.6mΩ	
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 100A. Voltage 2.30V~2.40V at 35°C(95°F)Temp. Coefficient -5mV/°C	
	Initial Charging Current less than 100A. 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	466.7	396.0	361.4	325.2	273.6	224.0	188.4	124.8	96.2	77.7	65.5	57.1	45.6	38.2	20.2
1.80V/cell	568.0	463.2	411.9	366.0	301.6	243.2	204.2	133.2	101.1	81.0	68.2	59.2	47.5	40.0	21.2
1.75V/cell	663.9	532.8	466.0	410.4	330.4	265.1	223.0	140.8	106.0	85.0	71.0	61.4	48.8	40.8	21.6
1.70V/cell	759.7	597.6	515.0	446.4	355.2	281.1	236.0	147.8	110.7	88.0	73.2	63.3	50.3	41.8	22.2
1.67V/cell	815.6	643.2	555.2	480.0	376.0	293.3	246.0	153.6	114.2	90.5	75.2	64.8	50.9	42.5	22.5
1.60V/cell	888.0	688.8	588.8	504.0	392.8	306.1	256.4	159.4	116.9	92.5	76.7	66.0	51.8	42.9	22.7

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	871.6	745.0	684.3	618.5	522.9	430.7	364.4	242.7	188.1	152.4	129.1	112.9	90.5	76.1	40.3
1.80V/cell	1043.4	858.8	769.8	688.8	571.7	464.5	392.8	257.8	196.6	158.3	133.8	116.5	94.0	79.4	42.1
1.75V/cell	1198.3	972.1	858.6	763.5	621.6	503.3	427.1	271.5	205.6	165.6	138.9	120.5	96.3	80.9	42.9
1.70V/cell	1348.5	1075.1	939.3	823.4	662.6	530.0	449.5	283.8	213.9	170.7	142.6	124.1	99.1	82.9	44.0
1.67V/cell	1421.7	1139.9	999.9	875.9	696.2	550.0	465.9	293.7	219.7	175.0	146.0	126.6	100.1	84.1	44.6
1.60V/cell	1515.8	1196.8	1042.9	909.2	720.0	568.6	482.4	302.9	223.7	178.1	148.4	128.5	101.7	84.7	44.9



LHT Series-High Temperature

LHT2-400(2V400Ah)



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

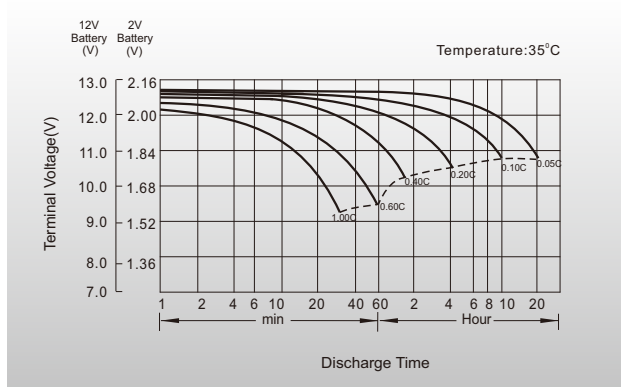
General Features

- 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

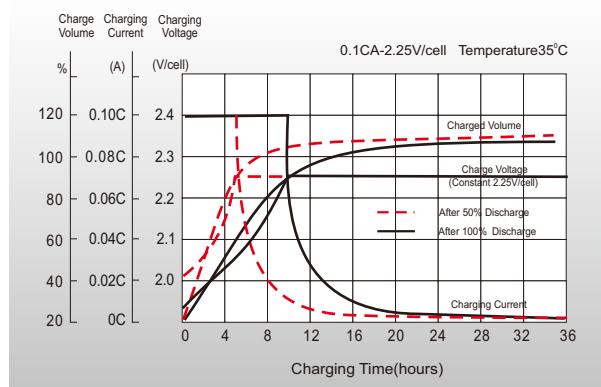
Standards

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

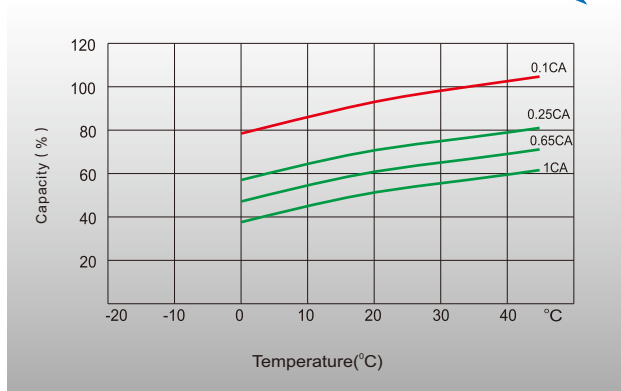
Discharge Characteristics



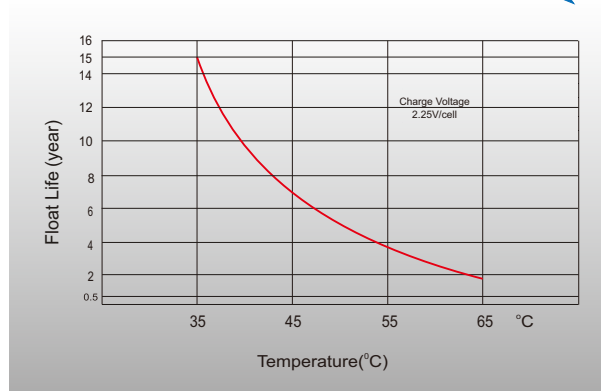
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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Publication No.: LB-LHT2-400-PD-EN-V2.0-202004