LHR Series-High Rate

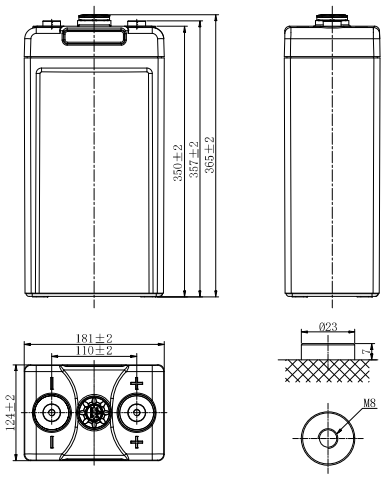
LHR750W(2V750W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell)		750W
Nominal Capacity(C_{10},1.80V/cell)		270Ah
Dimension	Length	124±2mm (4.88 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight		17.4kg (38.4 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	270.0 Ah	C10(27.0A,1.80V/cell)
	253.6 Ah	C8(31.7A,1.80V/cell)
	238.0 Ah	C5(47.6A,1.75V/cell)
	207.0 Ah	C3(69.0A,1.75V/cell)
	161.9 Ah	C1(161.9A,1.60V/cell)
Max. Discharge Current		2160A (5s)
Internal Resistance(25℃)		Approx 0.70mΩ
Operating Temp. Range	Discharge	-20 ~ 55℃ (-4 ~ 131℉)
	Charge	-20 ~ 40℃ (-4 ~ 104℉)
	Storage	-15 ~ 50℃ (5 ~ 122℉)
Nominal Operating Temp. Range		25±3℃ (77±5℉)
Max.Charging Current(25℃)		67.5A
		Charge voltage / Temp. Coefficient
Charge voltage(25℃)	Float	2.25 ~2.30V/cell / -3mV/cell/℃
	Equalization	2.30~2.40V/cell / -4mV/cell/℃
Effect of temp. to Capacity	40℃ (104℉)	106%
	25℃ (77℉)	100%
	0℃ (32℉)	86%
Self Discharge		≤3%/month @ 25℃

Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	392.4	344.3	307.1	251.6	197.5	165.3	142.6	106.7	84.0	65.6	52.1	45.6	30.7	26.3
1.80V/cell	441.9	387.7	341.9	275.0	205.8	174.2	148.5	111.4	87.8	67.6	53.1	46.6	31.7	27.0
1.75V/cell	453.5	408.1	360.2	291.5	216.8	180.2	150.0	114.8	89.7	69.0	54.1	47.6	32.1	27.3
1.70V/cell	501.3	429.4	378.8	306.9	227.4	186.8	155.9	118.1	92.2	71.8	55.4	48.2	32.5	27.7
1.67V/cell	540.6	458.8	398.9	319.1	235.3	191.4	158.9	121.5	94.1	73.2	57.1	49.3	32.9	28.0
1.60V/cell	548.1	465.2	404.5	323.6	238.6	196.0	161.9	124.9	96.7	74.5	58.1	50.3	33.3	28.4

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	737.8	647.4	577.4	473.1	371.3	317.4	273.7	210.1	165.4	129.2	102.5	89.8	61.4	52.7
1.80V/cell	830.7	728.9	642.9	517.1	387.0	334.4	285.1	219.4	172.9	133.2	104.5	91.7	63.5	54.0
1.75V/cell	852.6	767.3	677.2	548.1	407.5	346.1	288.0	226.1	176.7	136.0	106.5	93.9	64.3	54.7
1.70V/cell	942.5	807.2	712.2	576.9	427.5	358.7	299.4	232.7	181.7	141.4	109.1	95.0	65.1	55.4
1.67V/cell	1016.3	862.5	750.0	600.0	442.4	367.5	305.1	239.4	185.4	144.1	112.4	97.0	65.9	56.0
1.60V/cell	1030.5	874.6	760.5	608.4	448.6	376.3	310.8	246.0	190.5	146.8	114.4	99.0	66.6	56.7

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Applications

- UPS
- Hospitals & Testing Laboratories
- Emergency Power Supply
- Banks & Financial Markets
- Industrial Process Control Facilities
- Data & Network Operation Centers

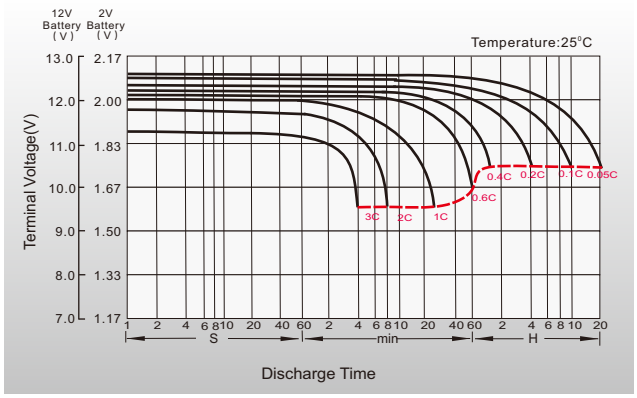
General Features

- High quality AGM separator: extend cycle life and prevent micro short circuit
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- Unique vent valve design: reduce water losing and prevent air/spark going inside

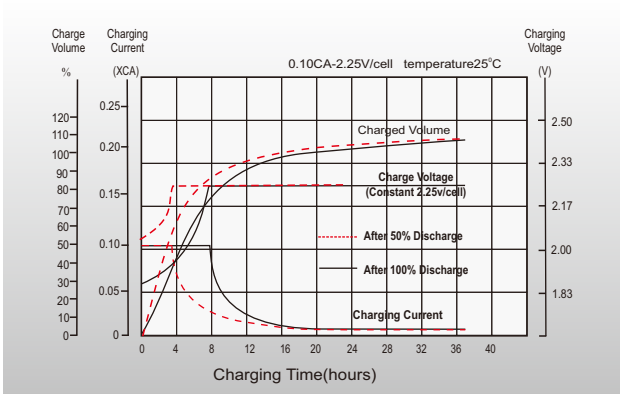
Standards

- Compliance with IEC 60896 standards
- Classified as “Long Life” according to Eurobat
- CE, UL, IEC Certified
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

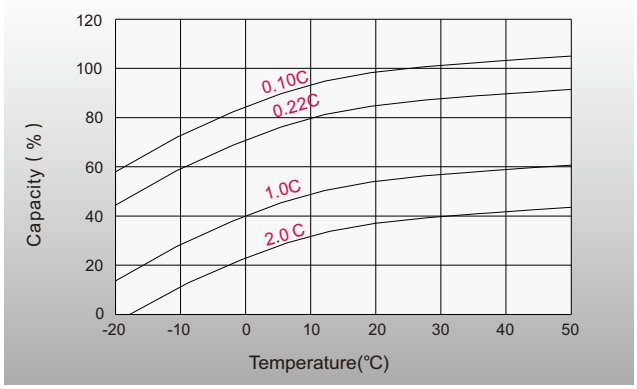
Discharge Characteristics



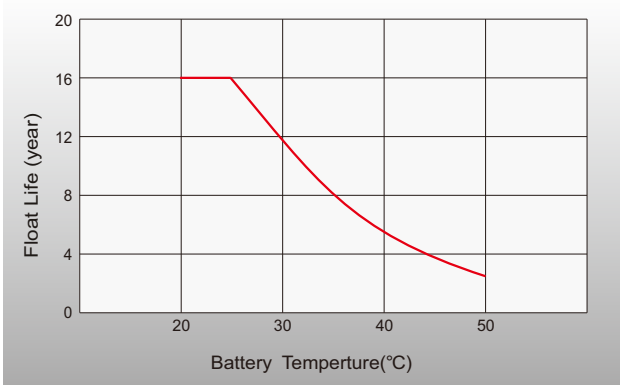
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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