LHR Series-High Rate

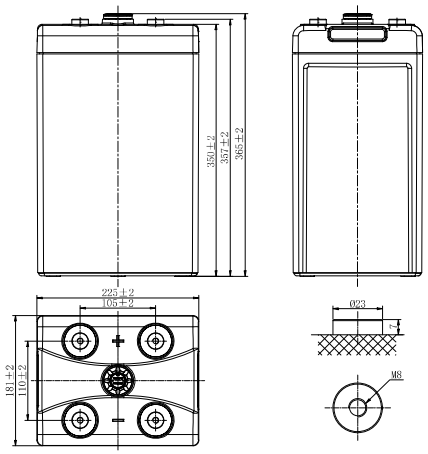
LHR1950W(2V2000W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		2000W 600Ah
Dimension	Length	225±2mm (8.86 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight		37.3kg (82.2 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	600.0 Ah	C10(60.0A,1.80V/cell)
	564.0 Ah	C8(70.5A,1.80V/cell)
	529.5 Ah	C5(105.9A,1.75V/cell)
	160.2 Ah	C3(153.4A,1.75V/cell)
	359.7 Ah	C1(359.7A,1.60V/cell)
Max. Discharge Current		4800A (5s)
Internal Resistance(25℃)		Approx 0.40mΩ
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℃)		150.0A
Charge voltage(25℃)		Charge voltage / Temp. Coefficient
	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	1046.5	918.2	819.1	671.0	526.7	367.3	316.8	237.0	186.6	145.7	115.7	101.3	68.3	58.5
1.80V/cell	1178.4	1033.9	911.9	733.4	548.9	387.0	330.0	247.5	195.0	150.3	117.9	103.5	70.5	60.0
1.75V/cell	1209.3	1088.3	960.6	777.4	578.0	400.5	333.3	255.0	199.3	153.4	120.1	105.9	71.4	60.8
1.70V/cell	1336.8	1145.0	1010.2	818.3	606.4	415.1	346.5	262.5	204.9	159.5	123.1	107.2	72.3	61.5
1.67V/cell	1441.5	1223.4	1063.8	851.1	627.6	425.3	353.1	270.0	209.2	162.6	126.8	109.5	73.2	62.3
1.60V/cell	1461.7	1240.5	1078.7	863.0	636.3	435.5	359.7	277.5	214.8	165.6	129.0	111.7	74.0	63.0

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	1967.4	1726.3	1539.8	1261.5	990.1	705.3	608.3	466.9	367.5	287.0	227.9	199.5	136.5	117.0
1.80V/cell	2215.3	1943.7	1714.3	1378.8	1032.0	743.0	633.6	487.6	384.2	296.1	232.3	203.9	141.0	120.0
1.75V/cell	2273.5	2046.0	1805.9	1461.5	1086.7	769.0	639.9	502.4	392.6	302.1	236.6	208.6	142.8	121.5
1.70V/cell	2513.3	2152.6	1899.2	1538.5	1140.0	797.1	665.3	517.1	403.7	314.2	242.5	211.2	144.6	123.0
1.67V/cell	2710.0	2300.0	2000.0	1600.0	1179.8	816.7	678.0	531.9	412.1	320.3	249.8	215.6	146.4	124.5
1.60V/cell	2747.9	2332.2	2028.0	1622.4	1196.3	836.2	690.6	546.7	423.2	326.3	254.2	220.0	147.9	126.0

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Applications

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

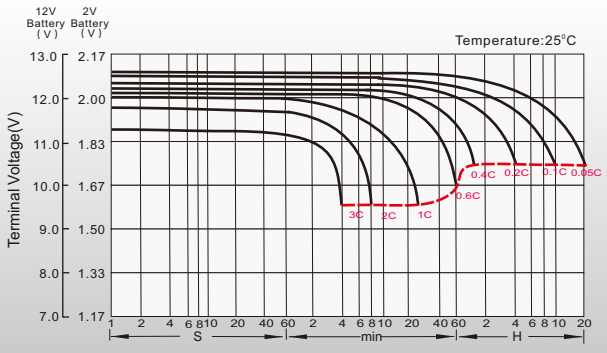
General Features

- 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

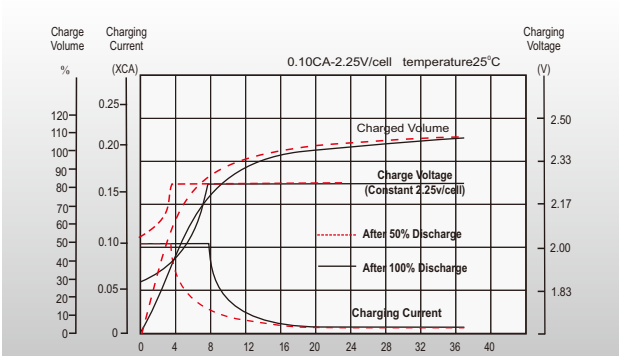
Standards

- 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

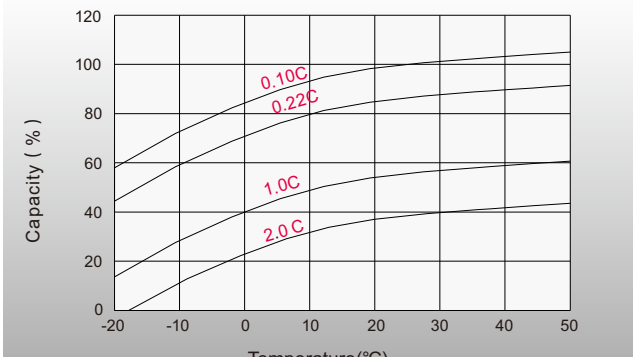
Discharge Characteristics



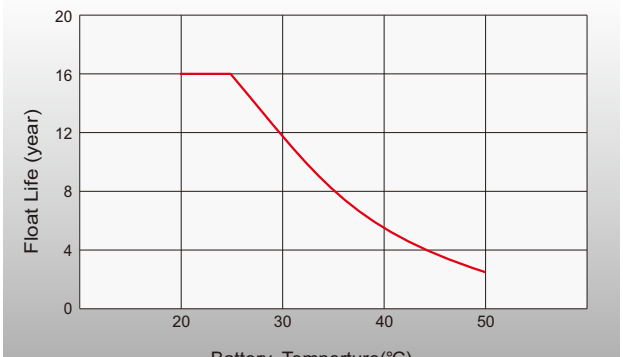
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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