LHR Series-High Rate

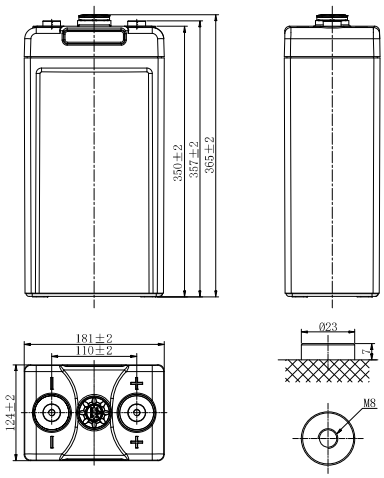
LHR950W(2V1000W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		1000W 300Ah
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		19.2kg (42.3 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	300.0 Ah	C10(30.0A,1.80V/cell)
	282.0 Ah	C8(35.3A,1.80V/cell)
	264.7 Ah	C5(52.9A,1.75V/cell)
	230.1 Ah	C3(76.7A,1.75V/cell)
	179.9 Ah	C1(179.9A,1.60V/cell)
Max. Discharge Current		2400A (5s)
Internal Resistance(25℃)		Approx 0.60mΩ
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℃)		75A
		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	523.3	459.1	409.5	335.5	263.3	183.7	158.4	118.5	93.3	72.8	57.8	50.6	34.1	29.3
1.80V/cell	589.2	516.9	455.9	366.7	274.5	193.5	165.0	123.8	97.5	75.2	59.0	51.7	35.3	30.0
1.75V/cell	604.7	544.2	480.3	388.7	289.0	200.3	166.7	127.5	99.6	76.7	60.1	52.9	35.7	30.4
1.70V/cell	668.4	572.5	505.1	409.2	303.2	207.6	173.3	131.3	102.5	79.8	61.5	53.6	36.2	30.8
1.67V/cell	720.7	611.7	531.9	425.5	313.8	212.7	176.6	135.0	104.6	81.3	63.4	54.7	36.6	31.1
1.60V/cell	730.8	620.3	539.4	431.5	318.2	217.8	179.9	138.8	107.4	82.8	64.5	55.8	37.0	31.5

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	983.7	863.1	769.9	630.8	495.1	352.6	304.1	233.4	183.8	143.5	113.9	99.7	68.3	58.5
1.80V/cell	1107.7	971.8	857.1	689.4	516.0	371.5	316.8	243.8	192.1	148.0	116.1	101.9	70.5	60.0
1.75V/cell	1136.7	1023.0	903.0	730.8	543.3	384.5	320.0	251.2	196.3	151.1	118.3	104.3	71.4	60.8
1.70V/cell	1256.6	1076.3	949.6	769.2	570.0	398.5	332.6	258.6	201.9	157.1	121.2	105.6	72.3	61.5
1.67V/cell	1355.0	1150.0	1000.0	800.0	589.9	408.3	339.0	266.0	206.0	160.1	124.9	107.8	73.2	62.3
1.60V/cell	1374.0	1166.1	1014.0	811.2	598.2	418.1	345.3	273.3	211.6	163.2	127.1	110.0	74.0	63.0

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Applications

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

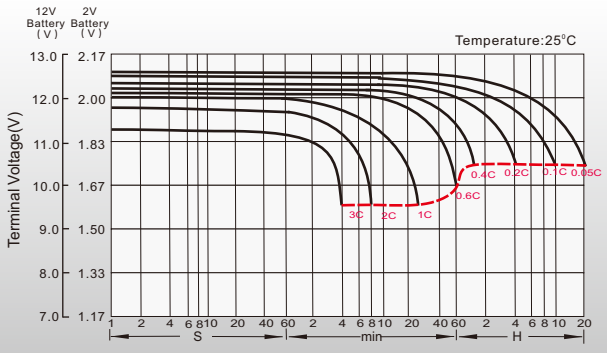
General Features

- 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

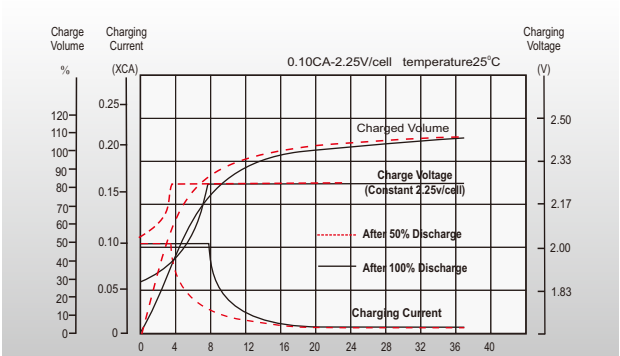
Standards

- 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

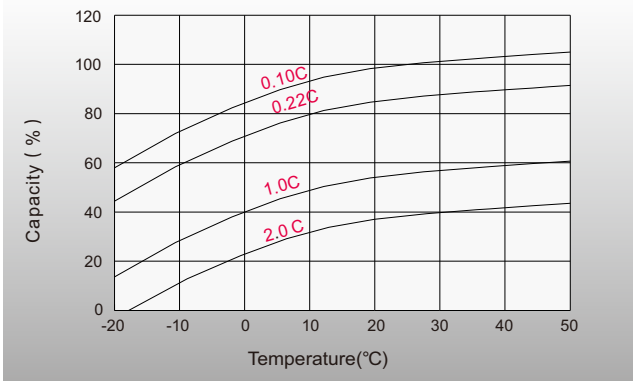
Discharge Characteristics



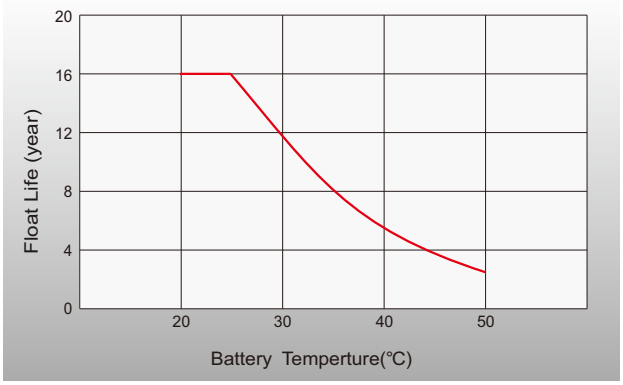
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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