LHR Series-High Rate

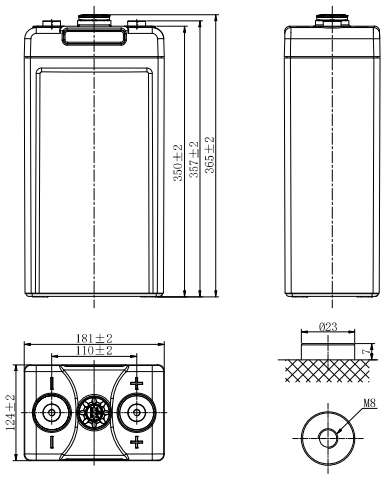
LHR900W(2V900W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		900W 300Ah
Dimension	Length Width Container Height Total Height	124±2mm (4.88 inches) 181±2mm (7.13 inches) 350±2mm (13.8 inches) 365±2mm (14.4 inches)
Approx Weight		18.2kg (40.1 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	300.0 Ah 282.4 Ah 264.5 Ah 230.1 Ah 179.9 Ah	C10(30.0A,1.80V/cell) C8(35.3A,1.80V/cell) C5(52.9A,1.75V/cell) C3(76.7A,1.75V/cell) C1(179.9A,1.60V/cell)
Max. Discharge Current		2400A (5s)
Internal Resistance(25℃)		Approx 0.68mΩ
Operating Temp. Range	Discharge Charge Storage	-20 ~ 55℃ (-4 ~ 131℉) -20 ~ 40℃ (-4 ~ 104℉) -15 ~ 50℃ (5 ~ 122℉)
Nominal Operating Temp. Range		25±3℃ (77±5℉)
Max.Charging Current(25℃)		75A
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	470.9	413.2	368.6	302.0	237.0	183.7	158.4	118.5	93.3	72.8	57.8	50.6	34.1	29.3
1.80V/cell	530.3	465.2	410.3	330.0	247.0	193.5	165.0	123.8	97.5	75.2	59.0	51.7	35.3	30.0
1.75V/cell	544.2	489.7	432.3	349.8	260.1	200.3	166.7	127.5	99.6	76.7	60.1	52.9	35.7	30.4
1.70V/cell	601.6	515.3	454.6	368.2	272.9	207.6	173.3	131.3	102.5	79.8	61.5	53.6	36.2	30.8
1.67V/cell	648.7	550.5	478.7	383.0	282.4	212.7	176.6	135.0	104.6	81.3	63.4	54.7	36.6	31.1
1.60V/cell	657.8	558.2	485.4	388.3	286.4	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	885.3	776.8	692.9	567.7	445.6	352.6	304.1	233.4	183.8	143.5	113.9	99.7	68.3	58.5
1.80V/cell	996.9	874.6	771.4	620.5	464.4	371.5	316.8	243.8	192.1	148.0	116.1	101.9	70.5	60.0
1.75V/cell	1023.1	920.7	812.7	657.7	489.0	384.5	320.0	251.2	196.3	151.1	118.3	104.3	71.4	60.8
1.70V/cell	1131.0	968.7	854.6	692.3	513.0	398.5	332.6	258.6	201.9	157.1	121.2	105.6	72.3	61.5
1.67V/cell	1219.5	1035.0	900.0	720.0	530.9	408.3	339.0	266.0	206.0	160.1	124.9	107.8	73.2	62.3
1.60V/cell	1236.6	1049.5	912.6	730.1	538.3	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

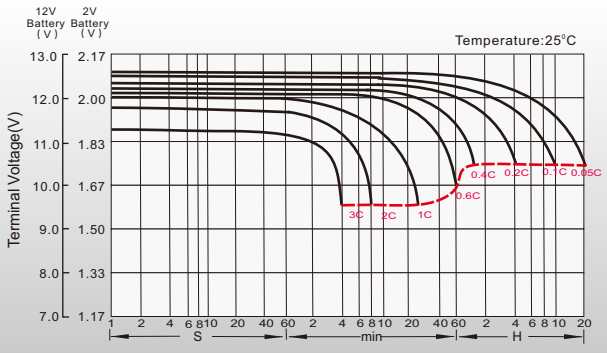
General Features

- 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

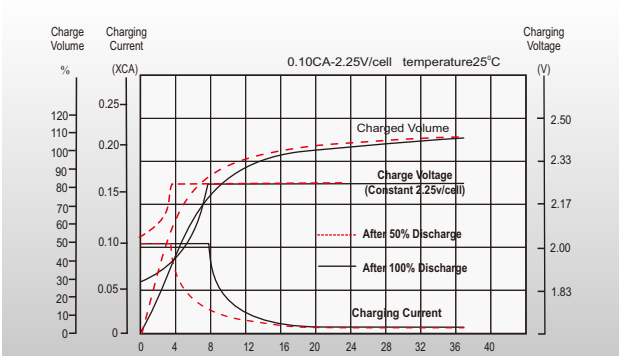
Standards

- 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

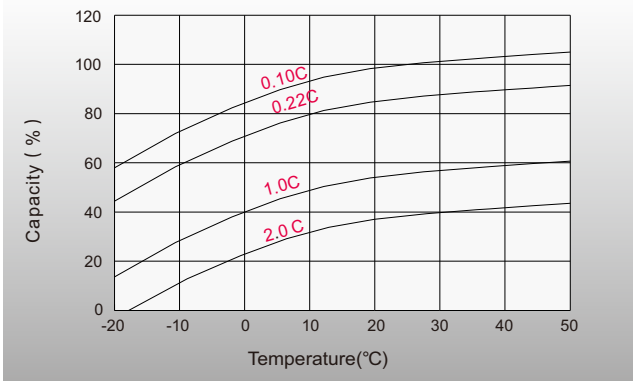
Discharge Characteristics



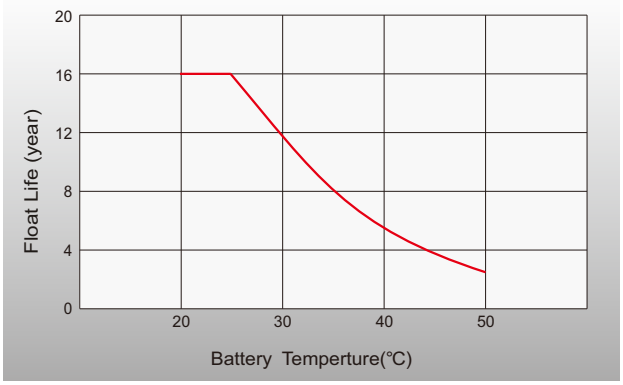
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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