LHR Series-High Rate

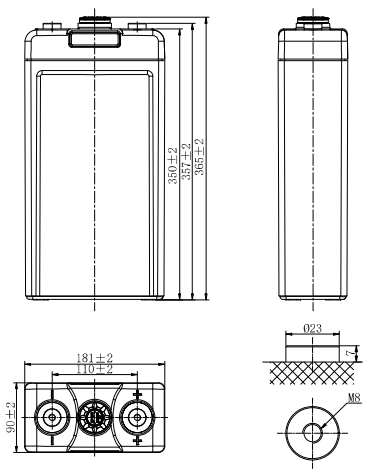
LHR600W(2V600W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		600W 200Ah
Dimension	Length	90±2mm (3.54 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight		12.8 Kg (28.2 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	200.0 Ah	C10(20.0A,1.80V/cell)
	188.0 Ah	C8(23.5A,1.80V/cell)
	176.5 Ah	C5(35.3A,1.75V/cell)
	153.3 Ah	C3(51.1A,1.75V/cell)
	119.9 Ah	C1(119.9A,1.60V/cell)
Max. Discharge Current		1600A (5s)
Internal Resistance(25℃)		Approx 0.78mΩ
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℃)		50A
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	314.0	275.5	245.7	201.3	158.0	122.4	105.6	79.0	62.2	48.6	38.6	33.8	22.8	19.5
1.80V/cell	353.5	310.2	273.6	220.0	164.7	129.0	110.0	82.5	65.0	50.1	39.3	34.5	23.5	20.0
1.75V/cell	362.8	326.5	288.2	233.2	173.4	133.5	111.1	85.0	66.4	51.1	40.0	35.3	23.8	20.3
1.70V/cell	401.1	343.5	303.1	245.5	181.9	138.4	115.5	87.5	68.3	53.2	41.0	35.7	24.1	20.5
1.67V/cell	432.4	367.0	319.1	255.3	188.3	141.8	117.7	90.0	69.7	54.2	42.3	36.5	24.4	20.8
1.60V/cell	438.5	372.2	323.6	258.9	190.9	145.2	119.9	92.5	71.6	55.2	43.0	37.2	24.7	21.0

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	590.2	517.9	461.9	378.5	297.0	235.1	202.8	155.6	122.5	95.7	76.0	66.5	45.5	39.0
1.80V/cell	664.6	583.1	514.3	413.6	309.6	247.7	211.2	162.5	128.1	98.7	77.4	68.0	47.0	40.0
1.75V/cell	682.0	613.8	541.8	438.5	326.0	256.3	213.3	167.5	130.9	100.7	78.9	69.5	47.6	40.5
1.70V/cell	754.0	645.8	569.7	461.5	342.0	265.7	221.8	172.4	134.6	104.7	80.8	70.4	48.2	41.0
1.67V/cell	813.0	690.0	600.0	480.0	353.9	272.2	226.0	177.3	137.4	106.8	83.3	71.9	48.8	41.5
1.60V/cell	824.4	699.7	608.4	486.7	358.9	278.7	230.2	182.2	141.1	108.8	84.7	73.3	49.3	42.0

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Applications

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

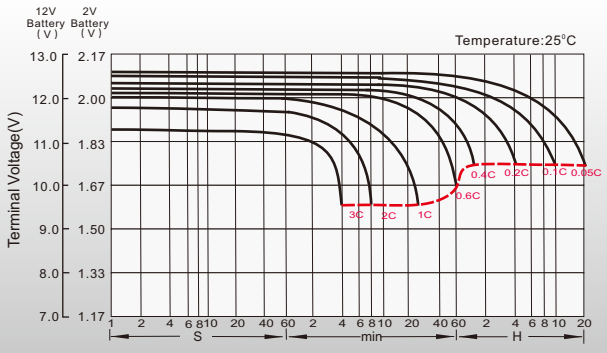
General Features

- 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

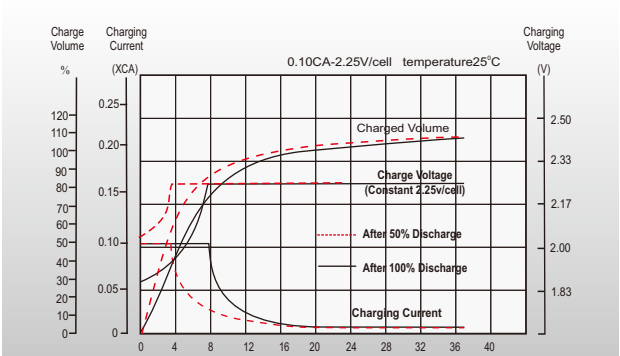
Standards

- 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

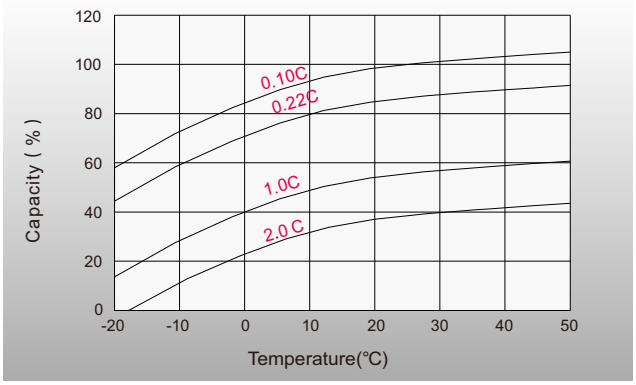
Discharge Characteristics



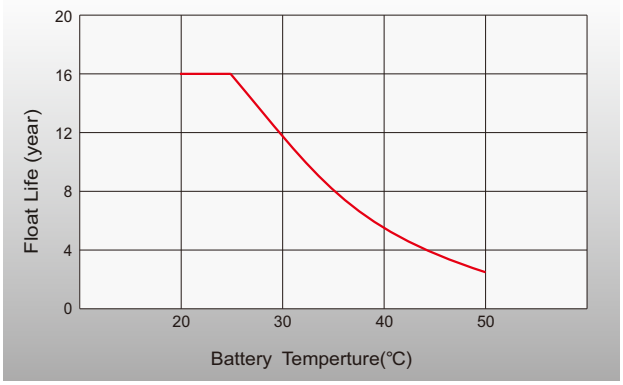
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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