LHR Series-High Rate

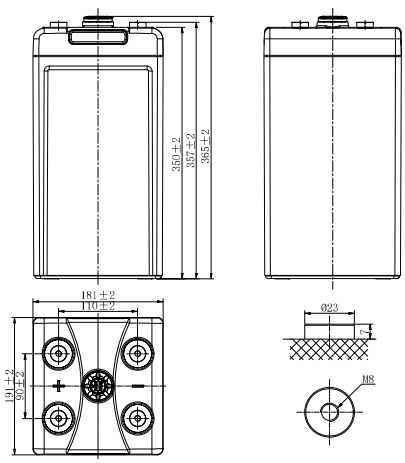
LHR1250W(2V1250W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		1250W 470Ah
Dimension	Length	191±2mm (7.52 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight		27.5kg (60.6 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	470.0 Ah	C10(47.0A,1.80V/cell)
	441.6 Ah	C8(55.2A,1.80V/cell)
	414.5 Ah	C5(82.9A,1.75V/cell)
	360.3 Ah	C3(120.1A,1.75V/cell)
	281.8 Ah	C1(281.8A,1.60V/cell)
Max. Discharge Current		3760A (5s)
Internal Resistance(25℃)		Approx 0.50mΩ
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℃)		117.5A
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	654.1	573.9	511.9	419.4	329.2	287.7	248.2	185.7	146.1	114.1	90.6	79.3	53.5	45.8
1.80V/cell	736.5	646.2	569.9	458.4	343.1	303.2	258.5	193.9	152.8	117.7	92.4	81.1	55.2	47.0
1.75V/cell	755.8	680.2	600.4	485.9	361.3	313.8	261.1	199.8	156.1	120.1	94.1	82.9	55.9	47.6
1.70V/cell	835.5	715.6	631.4	511.5	379.0	325.2	271.4	205.6	160.5	124.9	96.4	84.0	56.6	48.2
1.67V/cell	900.9	764.6	664.9	531.9	392.2	333.2	276.6	211.5	163.9	127.3	99.3	85.7	57.3	48.8
1.60V/cell	913.5	775.3	674.2	539.4	397.7	341.2	281.8	217.4	168.3	129.7	101.1	87.5	57.9	49.4

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	1229.6	1078.9	962.4	788.5	618.8	552.5	476.5	365.7	287.9	224.8	178.5	156.3	106.9	91.7
1.80V/cell	1384.6	1214.8	1071.4	861.8	645.0	582.0	496.3	381.9	301.0	231.9	181.9	159.7	110.5	94.0
1.75V/cell	1420.9	1278.8	1128.7	913.5	679.2	602.4	501.3	393.5	307.5	236.7	185.4	163.4	111.9	95.2
1.70V/cell	1570.8	1345.4	1187.0	961.5	712.5	624.4	521.1	405.1	316.3	246.1	189.9	165.5	113.3	96.4
1.67V/cell	1693.8	1437.5	1250.0	1000.0	737.4	639.7	531.1	416.7	322.8	250.9	195.7	168.9	114.7	97.5
1.60V/cell	1717.5	1457.6	1267.5	1014.0	747.7	655.1	541.0	428.2	331.5	255.6	199.1	172.4	115.9	98.7

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LEOCH BATTERY

Applications

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

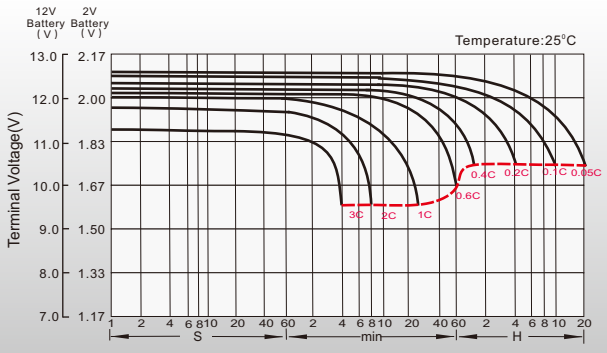
General Features

- 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

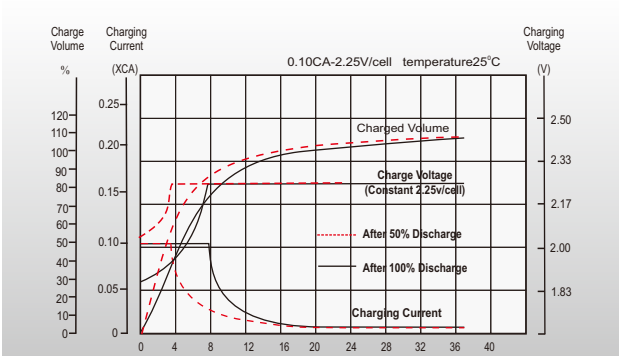
Standards

- 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

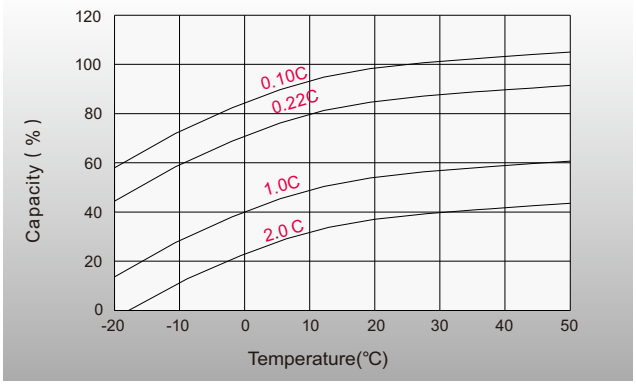
Discharge Characteristics



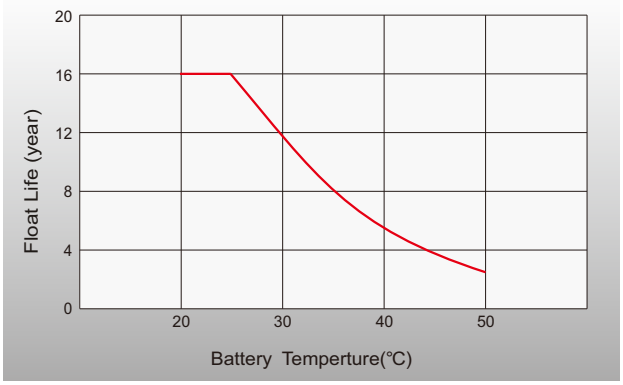
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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