LHR Series-High Rate

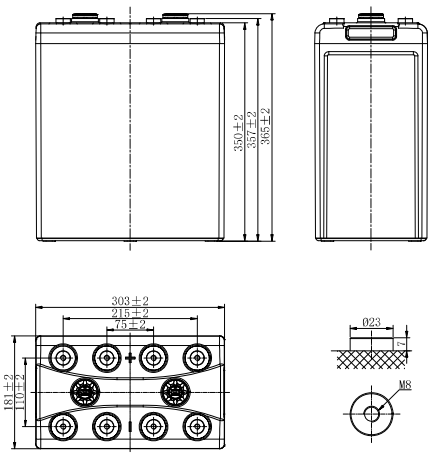
LHR2450W(2V2450W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		2500W 800Ah
Dimension	Length	303±2mm (11.9 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight		49.2kg (108.5 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	800.0 Ah	C10(80.0A,1.80V/cell)
	752.0 Ah	C8(94.0A,1.80V/cell)
	706.0 Ah	C5(141.2A,1.75V/cell)
	613.5 Ah	C3(204.5A,1.75V/cell)
	479.6 Ah	C1(479.6A,1.60V/cell)
Max. Discharge Current		6400A (5s)
Internal Resistance(25℃)		Approx 0.35mΩ
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℃)		200A
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	1412.7	1274.5	1067.5	852.4	691.7	489.8	422.4	316.0	248.8	194.3	154.2	135.0	91.0	78.0
1.80V/cell	1649.1	1416.1	1158.3	925.2	720.9	516.0	440.0	330.0	260.1	200.4	157.2	138.0	94.0	80.0
1.75V/cell	1827.1	1557.7	1237.8	987.5	759.9	534.1	444.4	340.0	265.7	204.5	160.2	141.2	95.2	81.0
1.70V/cell	1902.0	1652.1	1283.2	1039.5	798.9	553.5	462.0	350.0	273.3	212.7	164.1	143.0	96.4	82.0
1.67V/cell	1945.9	1675.7	1351.4	1081.1	824.2	567.1	470.8	360.0	278.9	216.8	169.1	145.9	97.6	83.0
1.60V/cell	1973.2	1699.1	1370.3	1096.2	835.7	580.7	479.6	370.0	286.4	220.8	172.0	148.9	98.6	84.0

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	2613.6	2357.7	1974.8	1576.9	1279.6	940.3	811.0	622.5	490.0	382.7	303.8	266.0	182.0	156.0
1.80V/cell	3050.8	2619.7	2142.9	1711.5	1333.7	990.7	844.8	650.1	512.3	394.8	309.7	271.8	188.0	160.0
1.75V/cell	3380.1	2881.7	2289.9	1826.9	1405.8	1025.4	853.2	669.8	523.5	402.8	315.5	278.1	190.4	162.0
1.70V/cell	3518.6	3056.3	2373.9	1923.1	1477.9	1062.8	887.0	689.5	538.3	419.0	323.3	281.6	192.8	164.0
1.67V/cell	3600.0	3100.0	2500.0	2000.0	1524.8	1088.9	903.9	709.2	549.4	427.0	333.1	287.5	195.2	166.0
1.60V/cell	3650.4	3143.4	2535.0	2028.0	1546.1	1115.0	920.8	728.9	564.3	435.1	338.9	293.4	197.2	168.0

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Applications

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

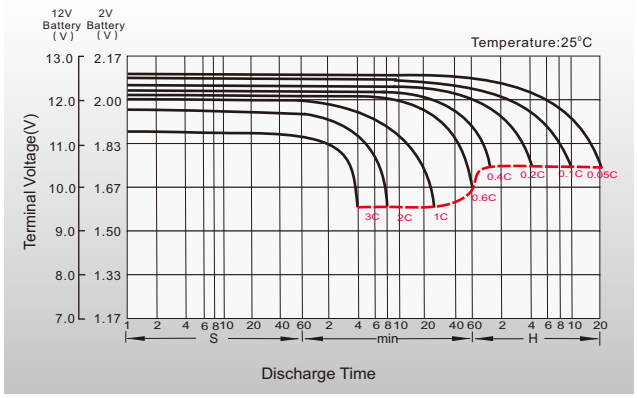
General Features

- 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

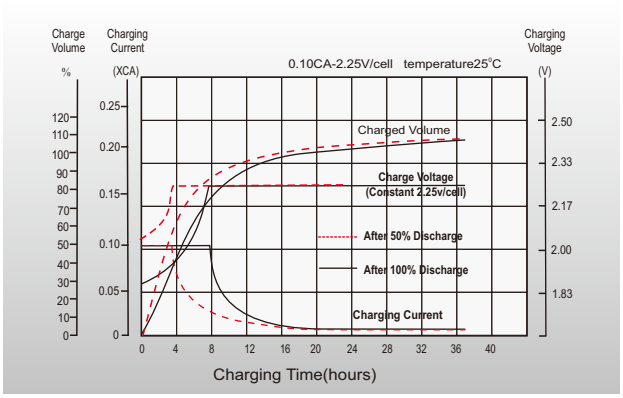
Standards

- 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

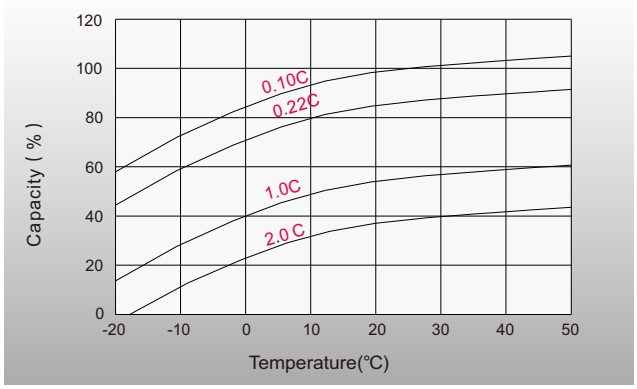
Discharge Characteristics



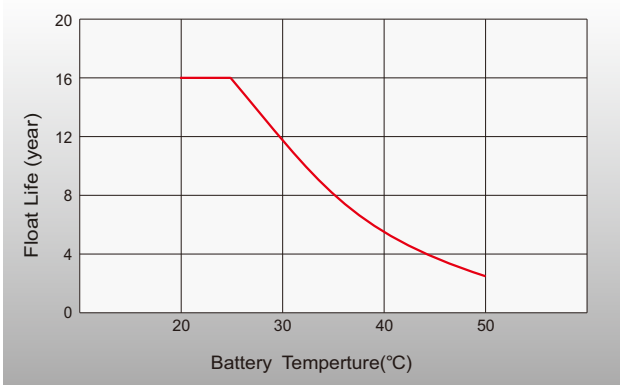
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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