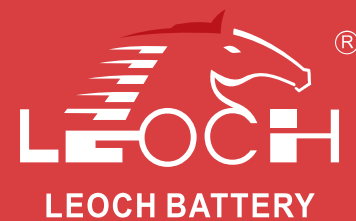




LHR Series-High Rate

LHR1800W(2V1800W)

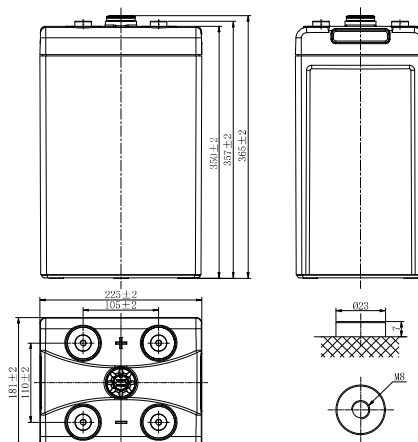


Specifications

Rated Voltage	2V		
Nominal Rate($W_{15}, 1.67V/cell$)	1800W		
Nominal Capacity($C_{10}, 1.80V/cell$)	600Ah		
Dimension	Length	225±2mm (8.86 inches)	
	Width	181±2mm (7.13 inches)	
	Container Height	350±2mm (13.8 inches)	
	Total Height	365±2mm (14.4 inches)	
Approx Weight	36.2kg (79.8 lbs)		
Terminal	M8		
Container Material	ABS: UL 94 HB or V-0		
Rated Capacity(25°C)	600.0 Ah	C10(60.0A, 1.80V/cell)	
	564.0 Ah	C8(70.5A, 1.80V/cell)	
	529.5 Ah	C5(105.9A, 1.75V/cell)	
	460.2 Ah	C3(153.4A, 1.75V/cell)	
	359.7 Ah	C1(359.7A, 1.60V/cell)	
Max. Discharge Current	4800A (5s)		
Internal Resistance(25°C)	Approx 0.40mΩ		
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)	
	Charge	-20 ~ 40°C (-4 ~ 104°F)	
	Storage	-15 ~ 50°C (5 ~ 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Max.Charging Current(25°C)	150A		
Charge voltage(25°C)	Float	Charge voltage	Temp. Coefficient
	Equalization	2.25 ~ 2.30V/cell	-3mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	2.30~2.40V/cell	-4mV/cell/°C
	25°C (77°F)		
	0°C (32°F)		
Self Discharge	≤3%/month @ 25°C		



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	1017.2	917.6	768.6	613.7	498.0	367.3	316.8	237.0	186.6	145.7	115.7	101.3	68.3	58.5
1.80V/cell	1187.4	1019.6	834.0	666.1	519.1	387.0	330.0	247.5	195.0	150.3	117.9	103.5	70.5	60.0
1.75V/cell	1315.5	1121.5	891.2	711.0	547.1	400.5	333.3	255.0	199.3	153.4	120.1	105.9	71.4	60.8
1.70V/cell	1369.4	1189.5	923.9	748.4	575.2	415.1	346.5	262.5	204.9	159.5	123.1	107.2	72.3	61.5
1.67V/cell	1401.1	1206.5	973.0	778.4	593.4	425.3	353.1	270.0	209.2	162.6	126.8	109.5	73.2	62.3
1.60V/cell	1420.7	1223.4	986.6	789.3	601.7	435.5	359.7	277.5	214.8	165.6	129.0	111.7	74.0	63.0

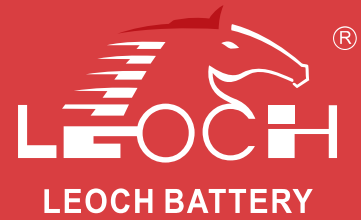
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	1881.8	1697.6	1421.8	1135.4	921.3	705.3	608.3	466.9	367.5	287.0	227.9	199.5	136.5	117.0
1.80V/cell	2196.6	1886.2	1542.9	1232.3	960.3	743.0	633.6	487.6	384.2	296.1	232.3	203.9	141.0	120.0
1.75V/cell	2433.7	2074.8	1648.7	1315.4	1012.2	769.0	639.9	502.4	392.6	302.1	236.6	208.6	142.8	121.5
1.70V/cell	2533.4	2200.6	1709.2	1384.6	1064.1	797.1	665.3	517.1	403.7	314.2	242.5	211.2	144.6	123.0
1.67V/cell	2592.0	2232.0	1800.0	1440.0	1097.8	816.7	678.0	531.9	412.1	320.3	249.8	215.6	146.4	124.5
1.60V/cell	2628.3	2263.2	1825.2	1460.2	1113.2	836.2	690.6	546.7	423.2	326.3	254.2	220.0	147.9	126.0



LHR Series-High Rate

LHR1800W(2V1800W)



Applications

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

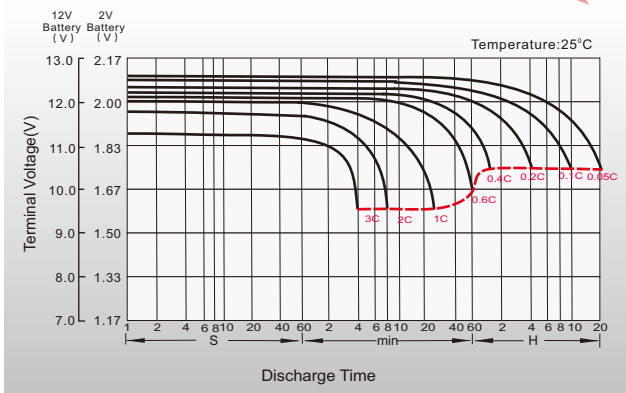
General Features

- 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

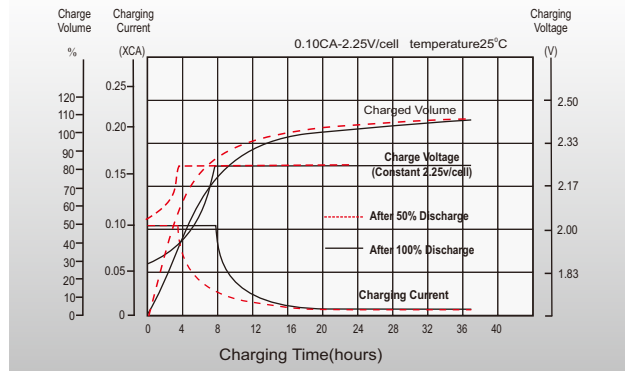
Standards

- 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

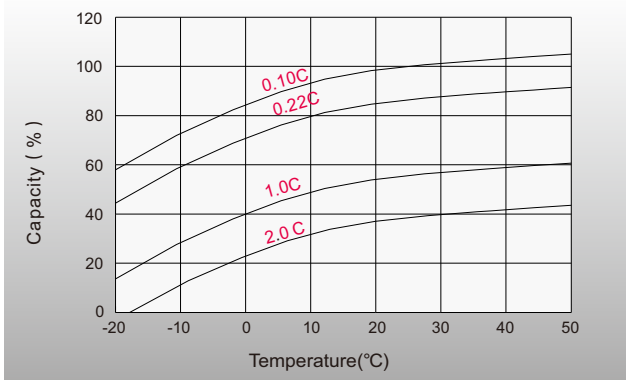
Discharge Characteristics



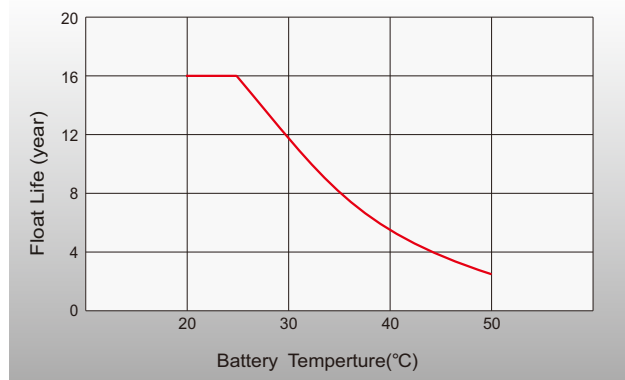
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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