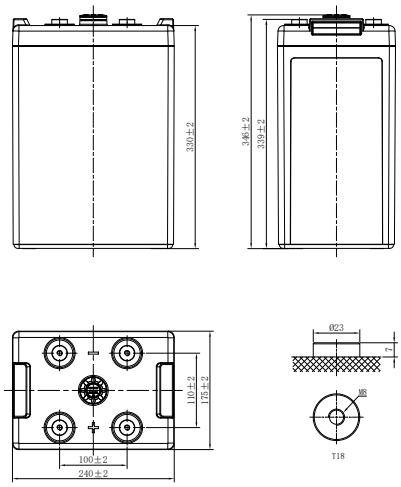
LHR SERIES-HIGH RATE

LHR2000W (2V2000W)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Rate (25℃)	W_{15},1.67V/cell	2000W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	600Ah
Dimension	Length	240mm (9.45inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	346mm (13.6inches)
Approx Weight		36.1kg (79.6lbs)
Terminal		T18(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		7200A
Internal Resistance (25℃)		Approx 0.4 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~55℃ (-4~131°F)
	Charge	-20~40℃ (-4~104°F)
	Storage	-15~50℃ (5~122°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.25C
Charge voltage (25℃)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.30-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-4mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	106%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	⩽3% per month at 25°C (77°F)	

DISCHARGE TABLE

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	941.9	872.3	819.1	671.0	526.7	367.3	316.8	237.0	186.6	145.7	115.7	101.3	68.3	58.5
1.80V/cell	1060.6	982.2	911.9	733.4	548.9	387.0	330.0	247.5	195.0	150.3	117.9	103.5	70.5	60.0
1.75V/cell	1088.4	1033.9	960.6	777.4	578.0	400.5	333.3	255.0	199.3	153.4	120.1	105.9	71.4	60.8
1.70V/cell	1203.1	1087.8	1010.2	818.3	606.4	415.1	346.5	262.5	204.9	159.5	123.1	107.2	72.3	61.5
1.67V/cell	1369.4	1162.2	1063.8	851.1	627.6	425.3	353.1	270.0	209.2	162.6	126.8	109.5	73.2	62.3
1.60V/cell	1388.6	1178.5	1078.7	863.0	636.3	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	1770.7	1640.0	1539.8	1261.5	990.1	705.3	608.3	466.9	367.5	287.0	227.9	199.5	136.5	117.0
1.80V/cell	1993.8	1846.5	1714.3	1378.8	1032.0	743.0	633.6	487.6	384.2	296.1	232.3	203.9	141.0	120.0
1.75V/cell	2046.2	1943.7	1805.9	1461.5	1086.7	769.0	639.9	502.4	392.6	302.1	236.6	208.6	142.8	121.5
1.70V/cell	2262.0	2045.0	1899.2	1538.5	1140.0	797.1	665.3	517.1	403.7	314.2	242.5	211.2	144.6	123.0
1.67V/cell	2574.5	2185.0	2000.0	1600.0	1179.8	816.7	678.0	531.9	412.1	320.3	249.8	215.6	146.4	124.5
1.60V/cell	2610.5	2215.6	2028.0	1622.4	1196.3	836.2	690.6	546.7	423.2	326.3	254.2	220.0	147.9	126.0

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APPLICATIONS

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

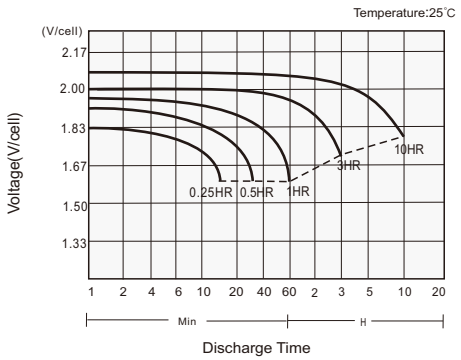
GENERAL FEATURES

- 16 years design life (25°C)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space

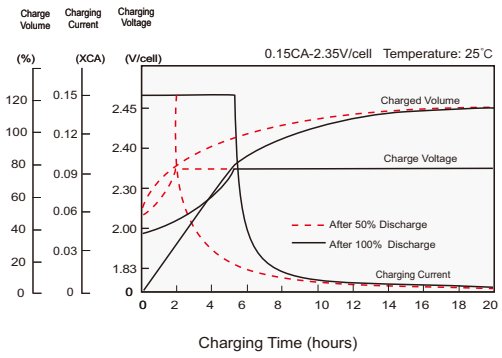
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

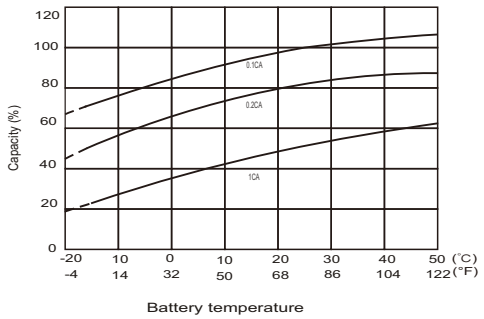
Discharge Characteristics



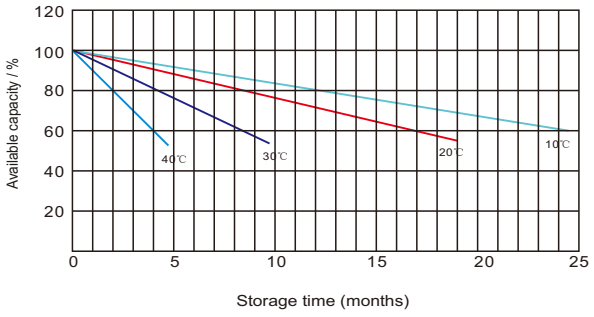
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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