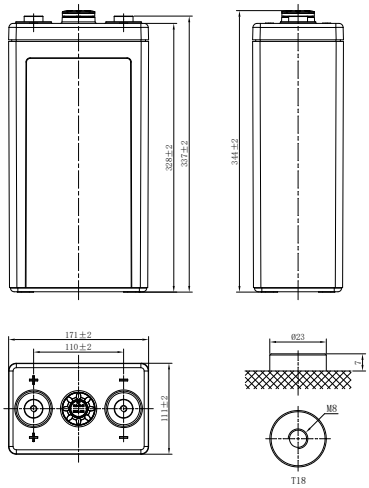
LHR SERIES-HIGH RATE

LHR750W (2V750W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Rate (25℃)	W_{15},1.67V/cell	750W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	250Ah
Dimension	Length	171mm (6.73inches)
	Width	111mm (4.37inches)
	Container Height	328mm (12.9inches)
	Total Height	344mm (13.5inches)
Approx Weight		14.9kg (32.9lbs)
Terminal		T18(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3000A
Internal Resistance (25℃)		Approx 0.7 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	346.1	320.5	284.4	233.0	182.9	153.1	132.0	98.8	77.8	60.7	48.2	42.2	28.4	24.4
1.80V/cell	389.8	360.9	316.6	254.6	190.6	161.3	137.5	103.1	81.3	62.6	49.2	43.1	29.4	25.0
1.75V/cell	400.0	379.9	333.5	269.9	200.7	166.9	138.9	106.3	83.1	63.9	50.1	44.1	29.7	25.3
1.70V/cell	442.1	399.8	350.7	284.2	210.6	173.0	144.4	109.4	85.4	66.5	51.3	44.6	30.1	25.6
1.67V/cell	503.3	427.1	369.4	295.5	217.9	177.2	147.1	112.5	87.1	67.8	52.9	45.6	30.5	25.9
1.60V/cell	510.3	433.1	374.5	299.6	220.9	181.5	149.9	115.6	89.5	69.0	53.8	46.6	30.8	26.3

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	650.7	602.7	577.4	438.1	343.8	293.9	253.4	194.5	153.1	119.6	94.9	83.1	56.9	48.8
1.80V/cell	732.7	678.6	642.9	478.8	358.3	309.6	264.0	203.1	160.1	123.3	96.8	84.9	58.8	50.0
1.75V/cell	752.0	714.4	677.2	507.5	377.3	320.5	266.7	209.4	163.6	125.9	98.6	86.9	59.5	50.6
1.70V/cell	831.3	751.5	712.2	534.2	395.8	332.1	277.2	215.5	168.2	130.9	101.0	88.0	60.3	51.3
1.67V/cell	946.2	803.0	750.0	555.6	409.6	340.3	282.5	221.7	171.7	133.4	104.1	89.8	61.0	51.9
1.60V/cell	959.4	814.3	760.5	563.3	415.4	348.4	287.8	227.8	176.4	135.9	105.9	91.7	61.7	52.5

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LEOCH BATTERY

APPLICATIONS

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

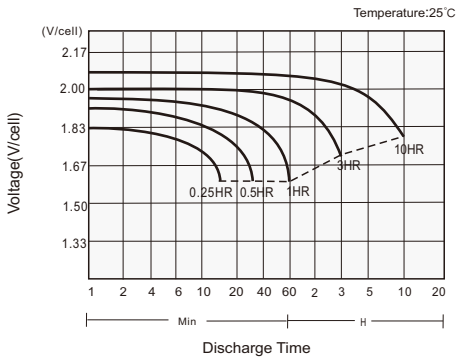
GENERAL FEATURES

- 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

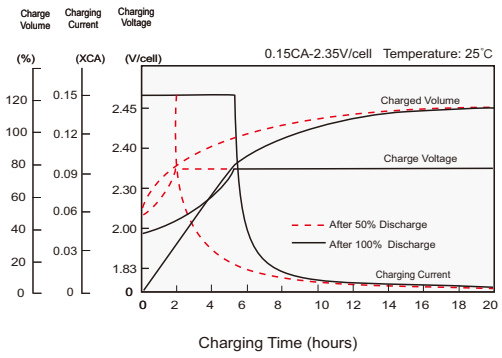
STANDARDS

- 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

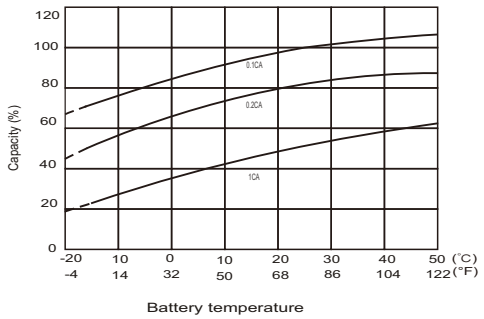
Discharge Characteristics



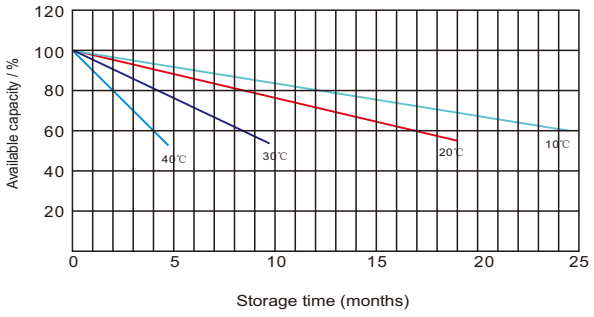
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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