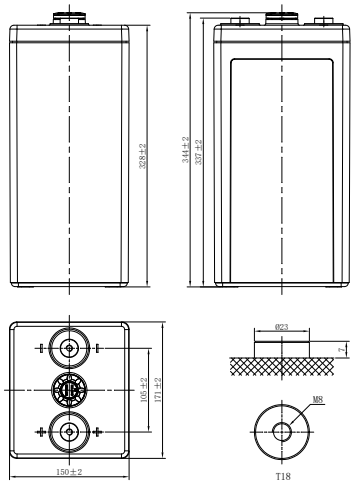
LHR SERIES-HIGH RATE

LHR1000W (2V1000W)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Rate (25℃)	W_{15},1.67V/cell	1000W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	300Ah
Dimension	Length	171mm (6.73inches)
	Width	150mm (5.91inches)
	Container Height	328mm (12.9inches)
	Total Height	344mm (13.5inches)
Approx Weight		20.2kg (44.5lbs)
Terminal		T18(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3600A
Internal Resistance (25℃)		Approx 0.6 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	461.6	436.1	409.5	335.5	263.3	183.7	158.4	118.5	93.3	72.8	57.8	50.6	34.1	29.3
1.80V/cell	519.7	491.1	455.9	366.7	274.5	193.5	165.0	123.8	97.5	75.2	59.0	51.7	35.3	30.0
1.75V/cell	533.3	517.0	480.3	388.7	289.0	200.3	166.7	127.5	99.6	76.7	60.1	52.9	35.7	30.4
1.70V/cell	589.5	543.9	505.1	409.2	303.2	207.6	173.3	131.3	102.5	79.8	61.5	53.6	36.2	30.8
1.67V/cell	671.0	581.1	531.9	425.5	313.8	212.7	176.6	135.0	104.6	81.3	63.4	54.7	36.6	31.1
1.60V/cell	680.4	589.3	539.4	431.5	318.2	217.8	179.9	138.8	107.4	82.8	64.5	55.8	37.0	31.5
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	867.6	819.9	769.9	630.8	495.1	352.6	304.1	233.4	183.8	143.5	113.9	99.7	68.3	58.5
1.80V/cell	977.0	923.2	857.1	689.4	516.0	371.5	316.8	243.8	192.1	148.0	116.1	101.9	70.5	60.0
1.75V/cell	1002.6	971.9	903.0	730.8	543.3	384.5	320.0	251.2	196.3	151.1	118.3	104.3	71.4	60.8
1.70V/cell	1108.3	1022.5	949.6	769.2	570.0	398.5	332.6	258.6	201.9	157.1	121.2	105.6	72.3	61.5
1.67V/cell	1261.5	1092.5	1000.0	800.0	589.9	408.3	339.0	266.0	206.0	160.1	124.9	107.8	73.2	62.3
1.60V/cell	1279.2	1107.8	1014.0	811.2	598.2	418.1	345.3	273.3	211.6	163.2	127.1	110.0	74.0	63.0

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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

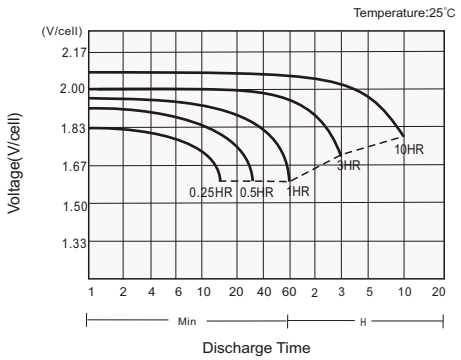
GENERAL FEATURES

- 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

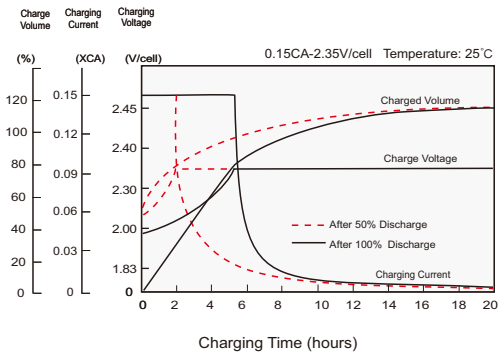
STANDARDS

- 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

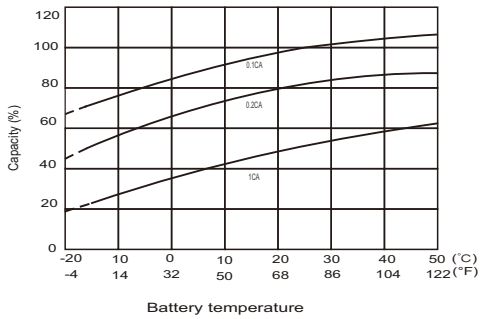
Discharge Characteristics



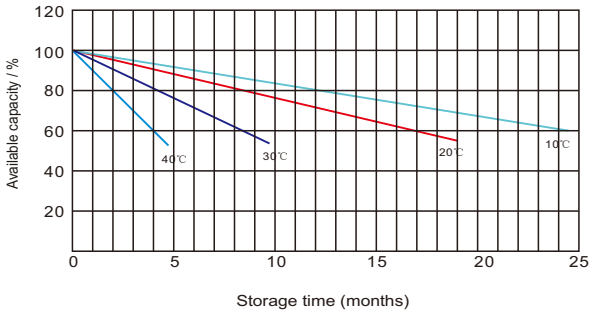
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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