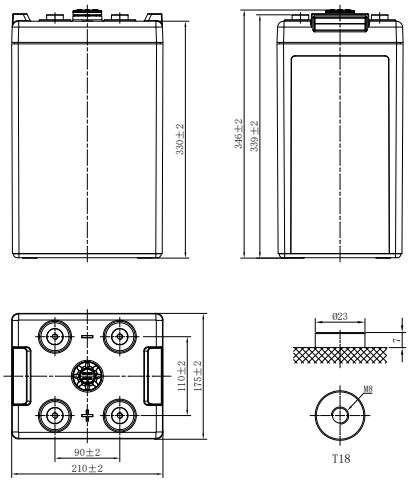
LHR SERIES-HIGH RATE

LHR1250W (2V1250W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Rate (25℃)	W_{15},1.67V/cell	1250W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	400Ah
Dimension	Length	210mm (8.27inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	346mm (13.6inches)
Approx Weight		27.1kg (59.8lbs)
Terminal		T18(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		4800A
Internal Resistance (25℃)		Approx 0.5 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	491.0	454.7	435.6	356.9	280.1	244.8	211.2	158.0	124.3	97.1	77.1	67.5	45.5	39.0
1.80V/cell	552.8	512.0	485.0	390.1	292.0	258.0	220.0	165.0	130.0	100.2	78.6	69.0	47.0	40.0
1.75V/cell	567.3	538.9	510.9	413.5	307.5	267.0	222.2	170.0	132.8	102.2	80.1	70.5	47.6	40.5
1.70V/cell	627.1	567.0	537.3	435.3	322.5	276.7	231.0	175.0	136.6	106.3	82.0	71.5	48.2	41.0
1.67V/cell	713.8	605.8	565.8	452.6	333.8	283.6	235.4	180.0	139.5	108.3	84.5	72.9	48.8	41.5
1.60V/cell	723.7	614.3	573.7	459.0	338.4	290.4	239.8	185.0	143.2	110.4	86.0	74.5	49.3	42.0

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	1084.5	1004.5	962.4	780.6	587.9	519.4	443.1	336.4	262.0	202.3	158.9	137.5	93.0	78.9
1.80V/cell	1221.2	1131.0	1071.4	853.2	612.8	547.1	461.6	351.3	273.9	208.7	161.9	140.5	96.1	80.8
1.75V/cell	1253.2	1190.6	1128.7	904.4	645.2	566.3	466.2	362.0	279.8	213.0	165.0	143.8	97.4	81.9
1.70V/cell	1385.4	1252.6	1187.0	951.9	676.9	586.9	484.6	372.7	287.8	221.5	169.0	145.6	98.6	82.9
1.67V/cell	1576.9	1338.3	1250.0	990.0	700.5	601.3	493.9	383.4	293.7	225.8	174.2	148.6	99.8	83.9
1.60V/cell	1599.0	1357.0	1267.5	1003.9	710.3	615.8	503.1	393.9	301.7	230.0	177.2	151.7	100.8	84.9

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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

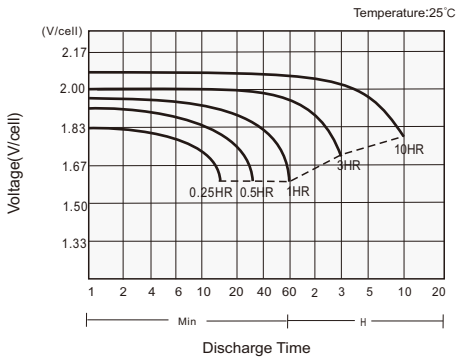
GENERAL FEATURES

- 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

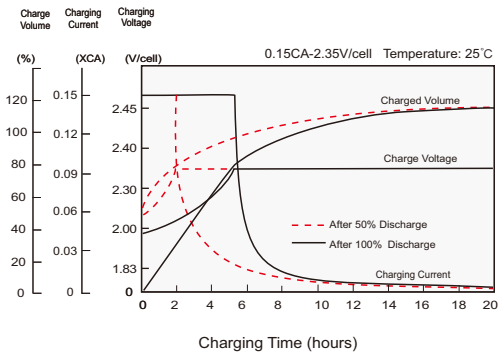
STANDARDS

- 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

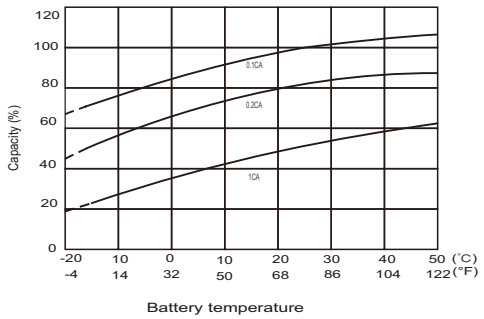
Discharge Characteristics



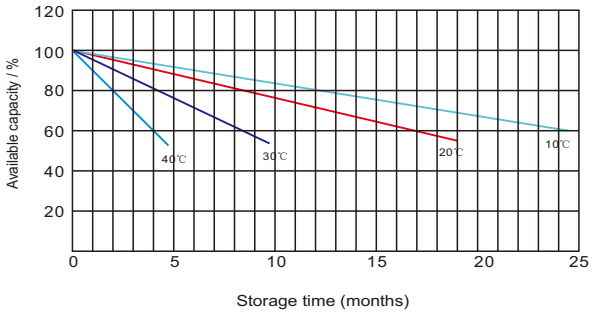
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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