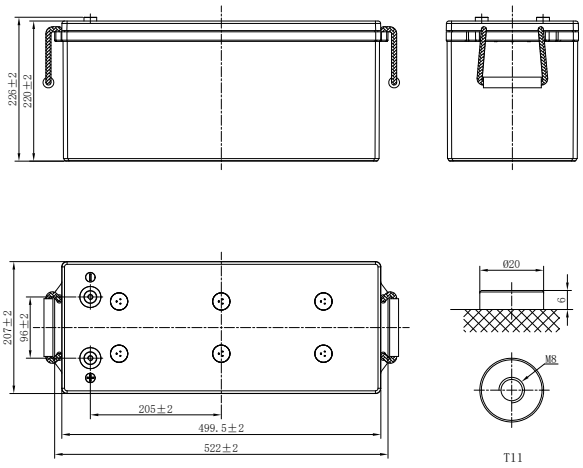
LHR SERIES-HIGH RATE

LHR12750W (12V750W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	750W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	190Ah
Dimension	Length	522mm(20.6inches)
	Width	207mm(8.15inches)
	Container Height	220mm(8.66inches)
	Total Height	226mm(8.90inches)
Approx Weight		59.7kg(131.6lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3800A
Internal Resistance (25℃)		Approx 2.6 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	448.7	358.2	310.6	244.2	169.2	129.0	104.6	76.8	62.8	46.8	37.0	31.3	21.6	18.5
1.80V/cell	510.2	406.6	351.9	276.1	190.8	137.0	108.1	79.1	66.5	48.3	38.3	32.5	22.1	19.0
1.75V/cell	544.7	433.4	374.5	293.0	201.7	145.3	112.5	82.4	69.0	49.3	39.6	33.5	22.3	19.1
1.70V/cell	578.0	458.7	394.8	308.4	212.3	152.5	117.5	85.8	70.7	50.4	40.6	34.2	22.6	19.2
1.67V/cell	613.2	485.0	416.4	324.7	222.8	156.6	118.7	88.1	72.4	51.5	41.1	34.7	22.9	19.5
1.60V/cell	634.9	501.6	429.4	333.0	228.2	160.5	120.9	91.0	73.8	52.8	42.0	35.3	23.0	19.6

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	837.9	673.8	588.0	464.5	323.4	248.1	202.3	148.9	122.2	91.4	72.5	61.6	42.9	36.8
1.80V/cell	937.3	753.8	657.8	519.6	361.8	261.7	207.9	152.5	128.7	94.0	75.0	63.8	43.7	37.7
1.75V/cell	983.3	790.7	690.0	545.1	379.5	275.8	215.5	158.1	133.1	95.7	77.2	65.4	44.0	37.8
1.70V/cell	1026.0	825.1	720.0	568.8	396.0	287.5	223.7	163.9	135.7	97.5	78.7	66.7	44.6	38.1
1.67V/cell	1068.8	859.5	750.0	592.5	412.5	293.7	224.9	167.4	138.4	99.1	79.5	67.3	45.0	38.6
1.60V/cell	1083.7	871.5	760.5	600.8	418.3	298.1	227.4	171.8	140.2	101.2	80.9	68.4	45.2	38.7

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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

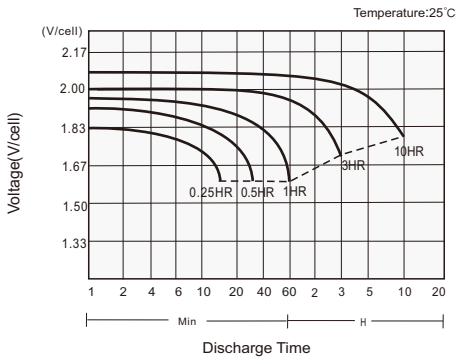
GENERAL FEATURES

- 12 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

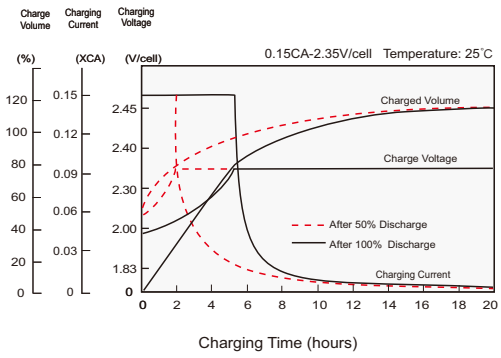
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch®IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

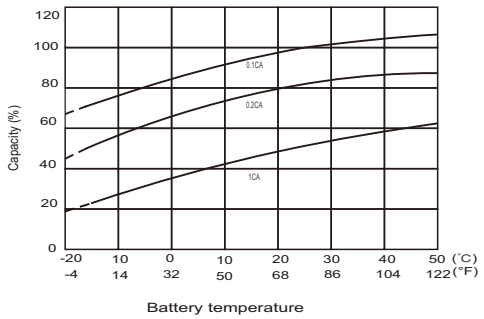
Discharge Characteristics



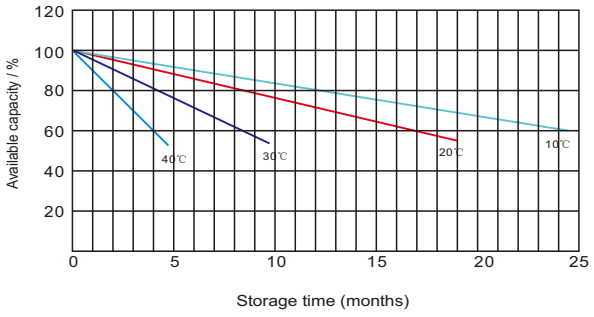
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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