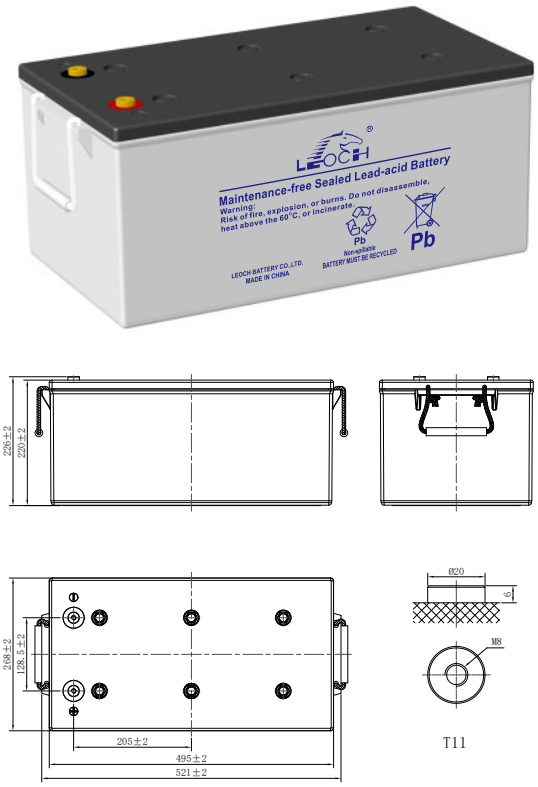
LHR SERIES-HIGH RATE

LHR121000W (12V1000W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	1000W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	250Ah
Dimension	Length	521mm (20.5inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight		79.5kg (175.3lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		5000.0A
Internal Resistance (25℃)		Approx 2.2 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	598.2	477.6	414.1	325.6	225.6	169.8	137.6	101.0	82.6	61.5	48.7	41.2	28.5	24.3
1.80V/cell	680.3	542.1	469.2	368.1	254.4	180.3	147.2	104.1	87.5	63.6	50.5	42.8	29.0	25.0
1.75V/cell	738.9	587.9	508.0	397.4	273.6	191.1	153.1	108.4	90.8	64.9	52.1	44.0	29.3	25.1
1.70V/cell	790.0	626.8	539.5	421.4	290.1	200.6	159.5	112.9	93.0	66.4	53.4	45.0	29.8	25.3
1.67V/cell	817.6	646.7	555.2	432.9	297.0	206.1	163.7	115.9	95.2	67.8	54.1	45.6	30.1	25.7
1.60V/cell	846.5	668.8	572.5	444.0	304.3	211.2	166.6	119.7	97.1	69.5	55.3	46.5	30.3	25.8
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	1117.2	898.5	784.0	619.4	431.2	326.4	266.1	195.9	160.8	120.2	95.4	81.1	56.5	48.4
1.80V/cell	1249.7	1005.0	877.0	692.8	482.4	344.4	283.2	200.7	169.3	123.6	98.6	83.9	57.5	49.6
1.75V/cell	1333.8	1072.7	936.0	739.4	514.8	362.9	293.2	208.1	175.1	126.0	101.6	86.0	57.9	49.8
1.70V/cell	1402.2	1127.7	984.0	777.4	541.2	378.2	303.9	215.7	178.6	128.3	103.6	87.7	58.7	50.1
1.67V/cell	1425.0	1146.0	1000.0	790.0	550.0	386.4	310.1	220.3	182.1	130.5	104.6	88.6	59.2	50.8
1.60V/cell	1445.0	1162.0	1014.0	801.1	557.7	392.2	313.4	226.1	184.5	133.1	106.5	89.9	59.4	51.0

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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

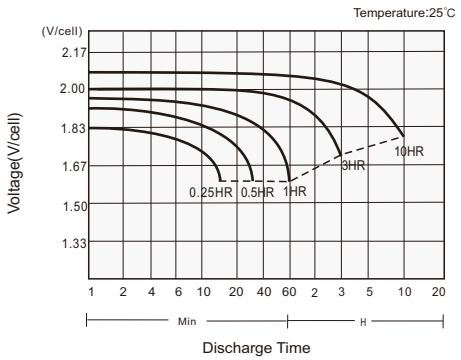
GENERAL FEATURES

- 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

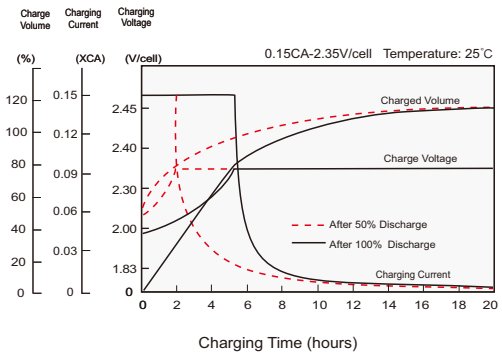
STANDARDS

- 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

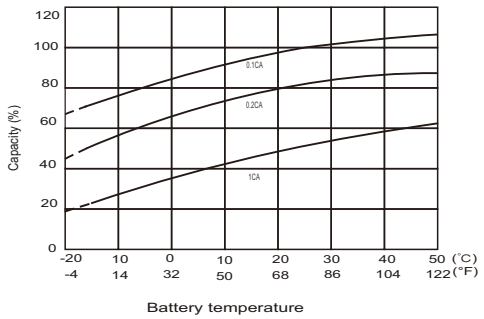
Discharge Characteristics



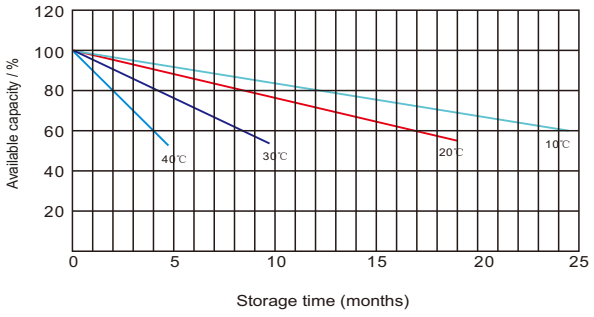
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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