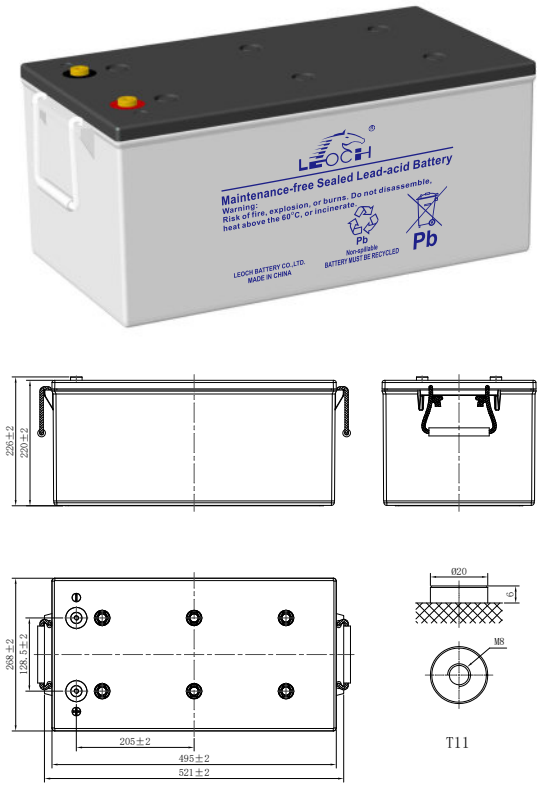
LHR SERIES-HIGH RATE

LHR12950W (12V950W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	950W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	230Ah
Dimension	Length	521mm (20.5inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight		77.5kg (170.9lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		4600.0A
Internal Resistance (25℃)		Approx 2.3 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	568.3	453.7	393.4	309.4	214.3	156.2	131.2	93.0	76.0	56.6	44.8	37.9	26.2	22.4
1.80V/cell	646.3	515.0	445.8	349.7	241.7	165.9	135.4	95.8	80.5	58.5	46.4	39.4	26.7	23.0
1.75V/cell	702.0	558.5	482.6	377.6	260.0	175.9	143.1	99.7	83.6	59.7	48.0	40.5	27.0	23.1
1.70V/cell	750.5	595.5	512.6	400.4	275.6	184.6	146.8	103.9	85.6	61.1	49.1	41.4	27.4	23.2
1.67V/cell	776.7	614.3	527.5	411.3	282.2	189.6	150.6	106.6	87.6	62.4	49.8	42.0	27.7	23.6
1.60V/cell	804.2	635.4	543.9	421.8	289.0	194.3	153.3	110.2	89.3	64.0	50.9	42.8	27.8	23.7
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	1061.3	853.5	744.8	588.4	409.6	300.3	253.7	180.2	147.9	110.6	87.8	74.6	51.9	44.5
1.80V/cell	1187.2	954.8	833.2	658.2	458.2	316.8	260.5	184.6	155.8	113.8	90.7	77.2	52.9	45.7
1.75V/cell	1267.1	1019.0	889.2	702.5	489.1	333.9	274.1	191.4	161.1	115.9	93.4	79.2	53.2	45.8
1.70V/cell	1332.1	1071.3	934.8	738.5	514.1	348.0	279.6	198.4	164.3	118.0	95.3	80.7	54.0	46.1
1.67V/cell	1353.8	1088.7	950.0	750.5	522.5	355.5	285.3	202.6	167.5	120.0	96.2	81.5	54.5	46.7
1.60V/cell	1372.7	1103.9	963.3	761.0	529.8	360.9	288.3	208.0	169.7	122.4	98.0	82.7	54.7	46.9

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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

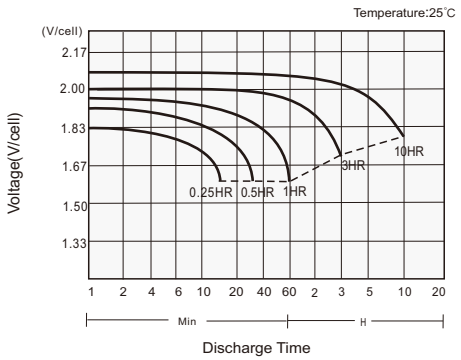
GENERAL FEATURES

- 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

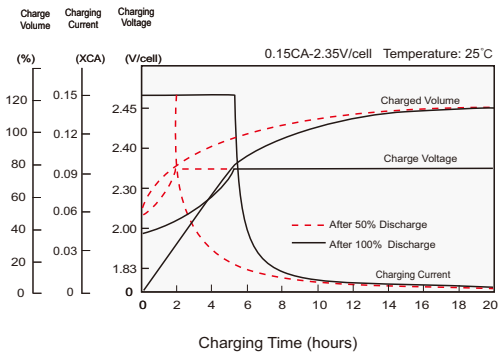
STANDARDS

- 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

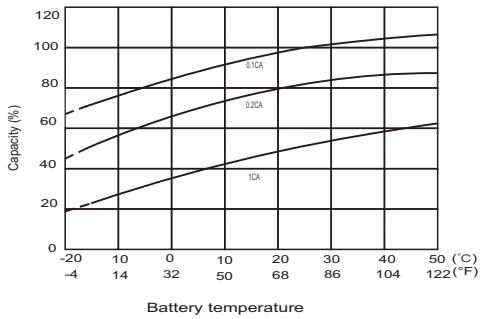
Discharge Characteristics



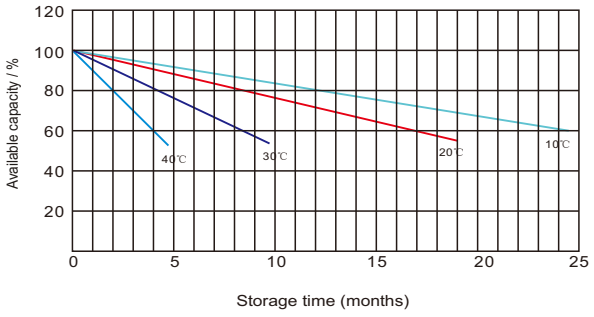
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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