LHR Series-High Rate

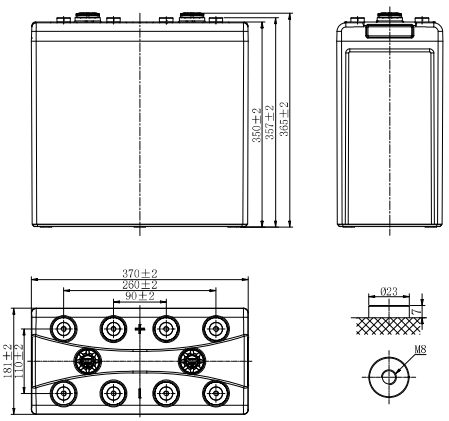
LHR2850W(2V2900W)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		2900W 1000Ah
Dimension	Length	370±2mm (14.6 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight		58.7kg (129.4 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	1000.0 Ah	C10(100.0A,1.80V/cell)
	940.0 Ah	C8(117.5A,1.80V/cell)
	882.5 Ah	C5(176.5A,1.75V/cell)
	766.8 Ah	C3(255.6A,1.75V/cell)
	599.5 Ah	C1(599.5A,1.60V/cell)
Max. Discharge Current		8000A (5s)
Internal Resistance(25℃)		Approx 0.35mΩ
Operating Temp. Range	Discharge	-20 ~ 55℃ (-4 ~ 131℉)
	Charge	-20 ~ 40℃ (-4 ~ 104℉)
	Storage	-15 ~ 50℃ (5 ~ 122℉)
Nominal Operating Temp. Range		25±3℃ (77±5℉)
Max.Charging Current(25℃)		250A
		Charge voltage / Temp. Coefficient
Charge voltage(25℃)	Float	2.25 ~2.30V/cell / -3mV/cell/℃
	Equalization	2.30~2.40V/cell / -4mV/cell/℃
Effect of temp. to Capacity	40℃ (104℉)	106%
	25℃ (77℉)	100%
	0℃ (32℉)	86%
Self Discharge		≤3%/month @ 25℃

Layout



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	1638.8	1478.4	1238.2	988.8	802.4	612.2	528.0	395.0	310.9	242.8	192.8	168.8	113.8	97.5
1.80V/cell	1913.0	1642.6	1343.6	1073.2	836.3	645.0	550.0	412.5	325.1	250.5	196.5	172.5	117.5	100.0
1.75V/cell	2119.4	1806.9	1435.8	1145.5	881.5	667.6	555.5	425.0	332.1	255.6	200.2	176.5	119.0	101.3
1.70V/cell	2206.3	1916.4	1488.5	1205.8	926.7	691.9	577.5	437.5	341.6	265.8	205.2	178.7	120.5	102.5
1.67V/cell	2257.3	1943.8	1567.6	1254.1	956.1	708.9	588.5	450.0	348.6	270.9	211.3	182.4	122.0	103.8
1.60V/cell	2288.9	1971.0	1589.5	1271.6	969.4	725.9	599.5	462.5	358.1	276.1	215.0	186.1	123.3	105.0

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	3031.7	2735.0	2290.8	1829.2	1484.4	1175.4	1013.8	778.2	612.6	478.4	379.8	332.5	227.5	195.0
1.80V/cell	3539.0	3038.9	2485.7	1985.4	1547.1	1238.4	1056.0	812.6	640.4	493.5	387.1	339.8	235.0	200.0
1.75V/cell	3921.0	3342.8	2656.3	2119.2	1630.7	1281.7	1066.6	837.3	654.3	503.6	394.4	347.6	238.0	202.5
1.70V/cell	4081.6	3545.4	2753.8	2230.8	1714.4	1328.5	1108.8	861.9	672.9	523.7	404.1	352.0	241.0	205.0
1.67V/cell	4176.0	3596.0	2900.0	2320.0	1768.7	1361.1	1129.9	886.5	686.8	533.8	416.3	359.4	244.0	207.5
1.60V/cell	4234.5	3646.3	2940.6	2352.5	1793.5	1393.7	1151.0	911.1	705.4	543.8	423.6	366.7	246.5	210.0

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Applications

- UPS
- Hospitals & Testing Laboratories
- Emergency Power Supply
- Banks & Financial Markets
- Industrial Process Control Facilities
- Data & Network Operation Centers

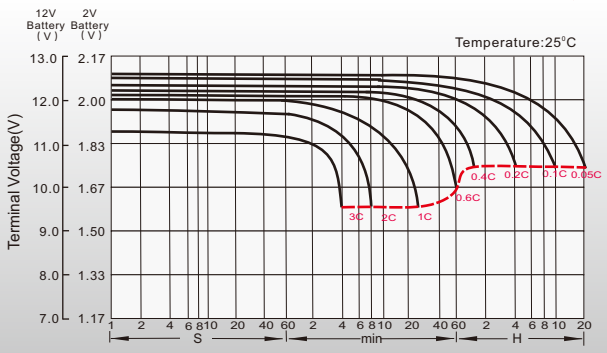
General Features

- High quality AGM separator: extend cycle life and prevent micro short circuit
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- Unique vent valve design: reduce water losing and prevent air/spark going inside

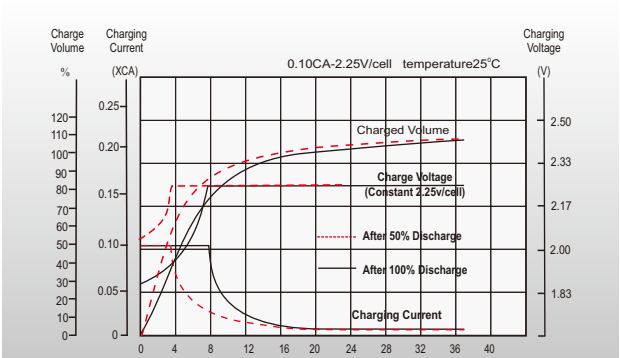
Standards

- Compliance with IEC 60896 standards
- Classified as “Long Life” according to Eurobat
- CE, UL, IEC Certified
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

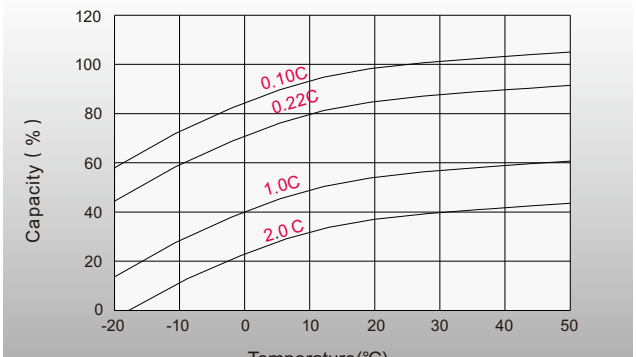
Discharge Characteristics



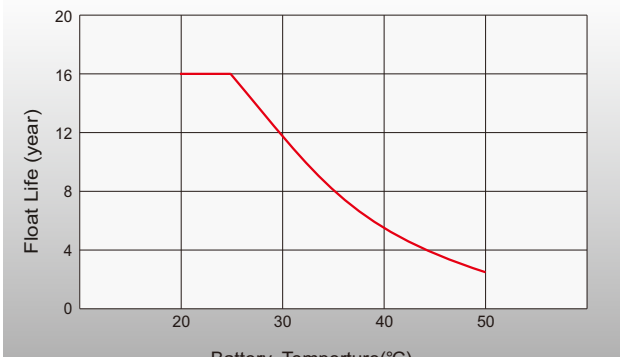
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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