LHR Series-High Rate

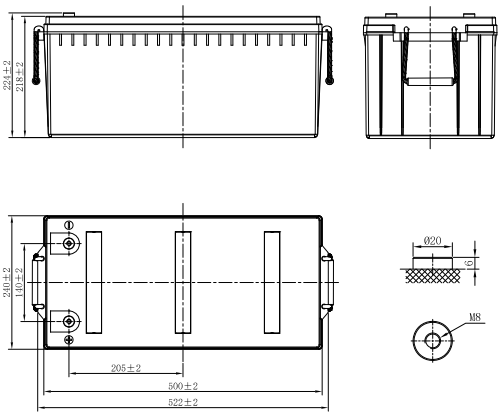
LHR12800W(12V800W)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Rate(W_{15},1.67V/cell)		800W/cell
Nominal Capacity(C_{10},1.80V/cell)		205Ah
Dimension	Length	522±2mm (20.6 inches)
	Width	240±2mm (9.45 inches)
	Container Height	218±2mm (8.58 inches)
	Total Height	224±2mm (8.82 inches)
Approx Weight		68.7kg (151.5 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0 optional
Rated Capacity(25℃)	205.0 Ah	C10(20.5A,1.80V/cell)
	190.4 Ah	C8(23.8A,1.80V/cell)
	180.5 Ah	C5(36.1A,1.75V/cell)
	159.6 Ah	C3(53.2A,1.75V/cell)
	130.5 Ah	C1(130.5A,1.60V/cell)
Max. Discharge Current		2050A (5s)
Internal Resistance(25℃)		Approx 2.6mΩ
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℃)		51.25A
		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	478.6	382.1	331.3	260.5	180.5	139.2	112.8	82.9	67.8	50.4	39.9	33.7	23.3	19.9
1.80V/cell	544.2	433.7	375.4	294.5	203.6	147.8	116.6	85.4	71.7	52.1	41.4	35.1	23.8	20.5
1.75V/cell	593.7	472.3	408.1	319.3	219.8	156.7	121.4	88.9	74.5	53.2	42.8	36.1	24.0	20.6
1.70V/cell	632.0	501.5	431.6	337.1	232.1	164.5	126.7	92.6	76.3	54.4	43.8	36.9	24.4	20.7
1.67V/cell	654.0	517.3	444.2	346.3	237.6	169.0	128.1	95.0	78.1	55.6	44.4	37.4	24.7	21.0
1.60V/cell	677.2	535.0	458.0	355.2	243.4	173.2	130.5	98.2	79.6	57.0	45.4	38.1	24.8	21.2

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	893.8	718.8	627.2	495.5	345.0	267.7	218.2	160.6	131.8	98.6	78.2	66.5	46.3	39.7
1.80V/cell	999.8	804.0	701.6	554.3	385.9	282.4	224.3	164.6	138.9	101.4	80.9	68.8	47.1	40.7
1.75V/cell	1071.6	861.8	752.0	594.1	413.6	297.6	232.5	170.6	143.6	103.3	83.3	70.5	47.4	40.8
1.70V/cell	1121.8	902.1	787.2	621.9	433.0	310.2	241.4	176.9	146.4	105.2	84.9	71.9	48.1	41.1
1.67V/cell	1140.0	916.8	800.0	632.0	440.0	316.9	242.7	180.6	149.3	107.0	85.8	72.6	48.6	41.7
1.60V/cell	1156.0	929.6	811.2	640.8	446.2	321.6	245.4	185.4	151.3	109.1	87.3	73.7	48.7	41.8

LHR Series-High Rate

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LEOCH BATTERY

Applications

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

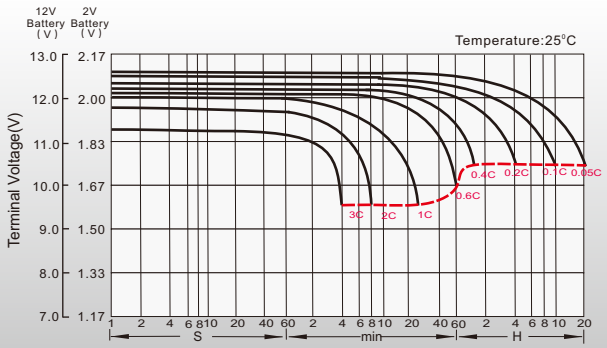
General Features

- 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

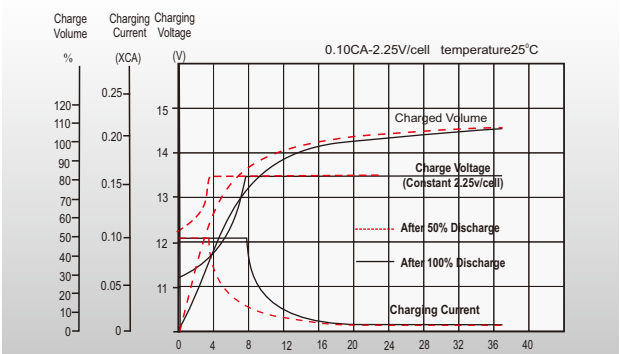
Standards

- 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

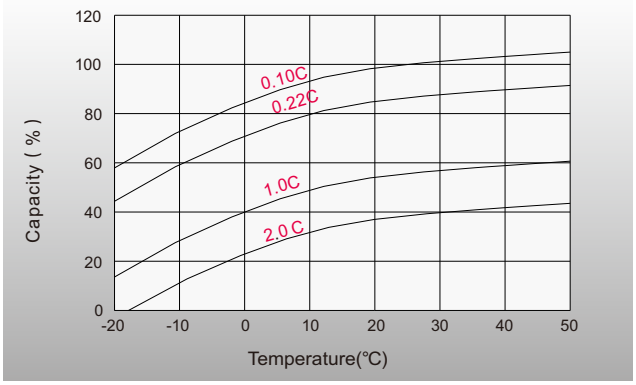
Discharge Characteristics



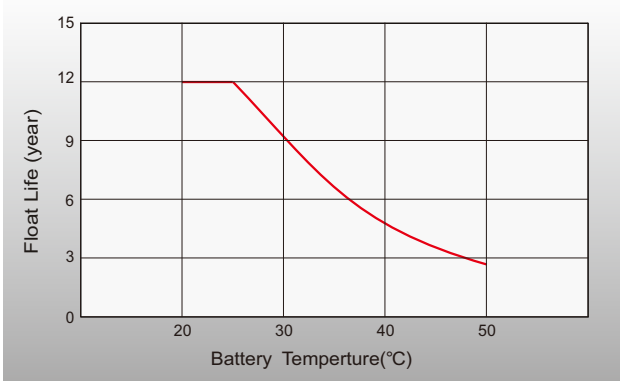
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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