LHR Series-High Rate

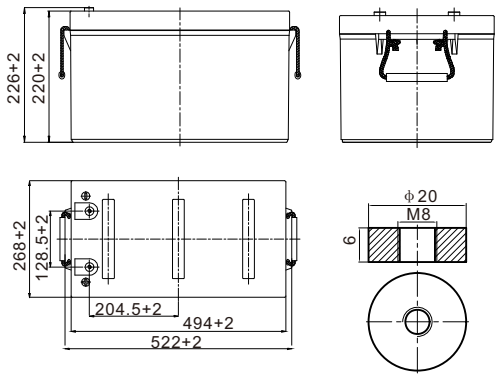
LHR12815W(12V815W)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		815W/cell 230Ah
Dimension	Length	522±2mm (20.6 inches)
	Width	268±2mm (10.6 inches)
	Container Height	220±2mm (8.66 inches)
	Total Height	226±2mm (8.90 inches)
Approx Weight		74.1kg (163.4 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	230.0 Ah	C10(23.0A,1.80V/cell)
	213.6 Ah	C8(26.7A,1.80V/cell)
	202.5 Ah	C5(40.5A,1.75V/cell)
	197.1 Ah	C3(59.7A,1.75V/cell)
	146.4 Ah	C1(146.4A,1.60V/cell)
Max. Discharge Current		2300A (5s)
Internal Resistance(25℃)		Approx 2.5mΩ
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℃)		57.5A
		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	490.5	391.6	339.5	267.0	188.4	140.9	126.6	93.0	76.0	56.6	44.8	37.9	26.2	22.4
1.80V/cell	557.9	444.5	384.8	301.9	212.4	150.5	130.8	95.8	80.5	58.5	46.4	39.4	26.7	23.0
1.75V/cell	605.9	482.1	416.5	325.9	228.5	157.5	136.2	99.7	83.6	59.7	48.0	40.5	27.0	23.1
1.70V/cell	647.8	514.0	442.4	345.6	242.2	163.1	142.2	103.9	85.6	61.1	49.1	41.4	27.4	23.2
1.67V/cell	670.4	530.3	455.3	355.0	248.0	171.2	143.7	106.6	87.6	62.4	49.8	42.0	27.7	23.6
1.60V/cell	694.1	548.4	469.4	364.1	254.0	180.7	146.4	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	916.1	736.7	642.9	507.9	360.0	270.8	244.8	180.2	147.9	110.6	87.8	74.6	51.9	44.5
1.80V/cell	1024.8	824.1	719.1	568.1	402.7	287.5	251.7	184.6	155.8	113.8	90.7	77.2	52.9	45.7
1.75V/cell	1093.7	879.6	767.5	606.3	429.8	299.0	260.9	191.4	161.1	115.9	93.4	79.2	53.2	45.8
1.70V/cell	1149.8	924.7	806.9	637.4	451.9	307.5	270.8	198.4	164.3	118.0	95.3	80.7	54.0	46.1
1.67V/cell	1168.5	939.7	815.0	647.8	459.2	321.0	272.3	202.6	167.5	120.0	96.2	81.5	54.5	46.7
1.60V/cell	1184.9	952.9	831.5	656.9	465.6	335.7	275.3	208.0	169.7	122.4	98.0	82.7	54.7	46.9

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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

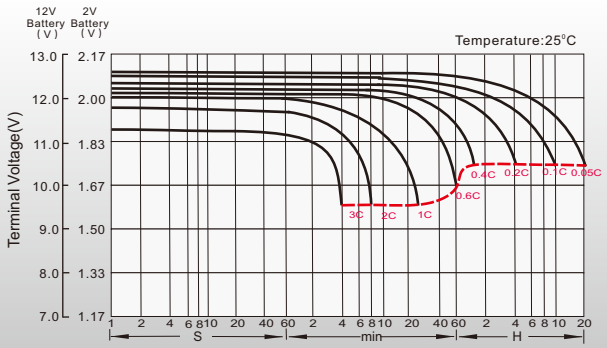
General Features

- 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

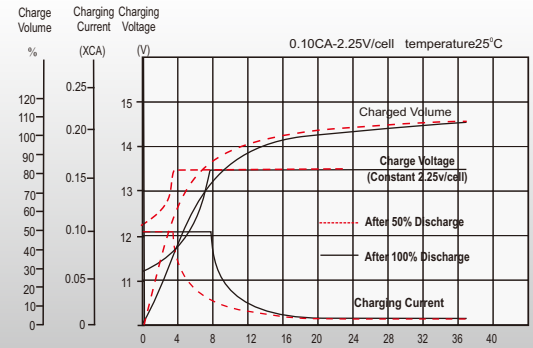
Standards

- 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

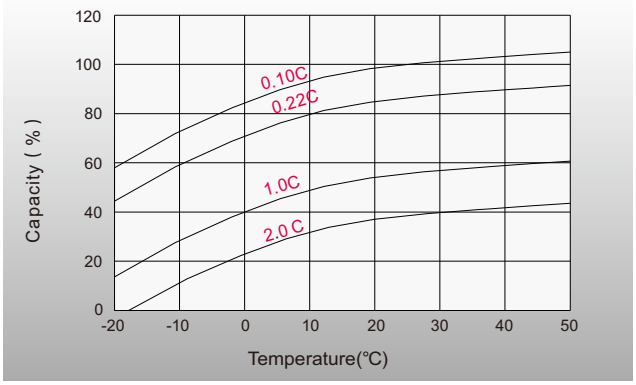
Discharge Characteristics



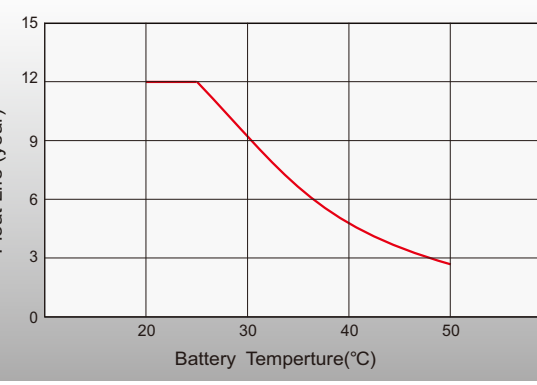
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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