LHR Series-High Rate

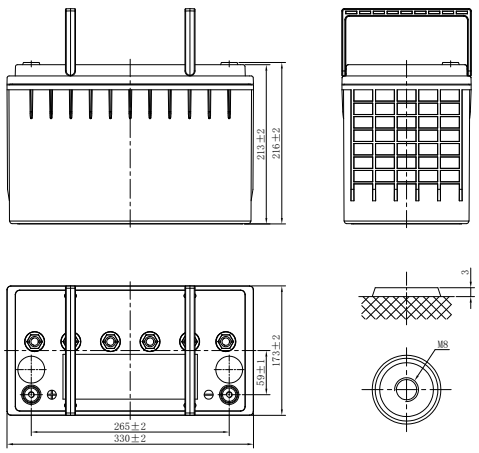
LHR12360W(12V360W)

LEOCH BATTERY

Specifications

Rated Voltage			12V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)			360W/cell 100Ah
Dimension	Length Width Container Height Total Height		330±2mm (13.0 inches) 173±2mm (6.81 inches) 213±2mm (8.39 inches) 216±2mm (8.50 inches)
Approx Weight			30.0kg (66.1 lbs)
Terminal			M8
Container Material			ABS: UL 94 HB or V-0
Rated Capacity(25℃)	100.0 Ah 96.0 Ah 89.0 Ah 77.1 Ah 66.0 Ah		C10(10.0A,1.80V/cell) C8(12.0A,1.80V/cell) C5(17.8A,1.75V/cell) C3(25.7A,1.75V/cell) C1(66.0A,1.60V/cell)
Max. Discharge Current			1000A (5s)
Internal Resistance(25℃)			Approx 3.5mΩ
Operating Temp. Range	Discharge Charge Storage		-20 ~ 55℃ (-4 ~ 131℉) -20 ~ 40℃ (-4 ~ 104℉) -15 ~ 50℃ (5 ~ 122℉)
Nominal Operating Temp. Range			25±3℃ (77±5℉)
Max.Charging Current(25℃)			25.0A
Charge voltage(25℃)		Charge voltage	Temp. Coefficient
	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	278.5	206.5	164.2	116.7	87.6	65.5	52.8	37.3	31.5	23.8	19.4	16.6	11.7	9.76
1.80V/cell	310.4	230.1	183.0	126.3	94.4	69.6	55.9	39.5	33.2	24.8	20.3	17.2	12.0	10.0
1.75V/cell	323.9	240.1	191.0	138.6	102.2	74.0	59.3	41.8	34.7	25.7	21.1	17.8	12.2	10.1
1.70V/cell	328.0	243.1	193.4	148.2	107.2	78.4	62.0	43.7	36.0	26.5	21.6	18.1	12.4	10.2
1.67V/cell	333.0	246.8	196.4	156.3	112.0	80.9	64.2	45.2	37.1	27.3	22.1	18.4	12.6	10.3
1.60V/cell	338.1	250.6	199.3	162.3	116.0	83.2	66.0	46.3	37.7	27.8	22.4	18.7	12.7	10.5

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	456.0	378.5	301.1	227.4	172.5	130.1	105.6	76.0	63.3	48.0	39.3	33.7	23.9	20.0
1.80V/cell	515.4	421.8	335.6	243.9	184.9	137.6	111.3	79.9	66.5	49.9	41.0	34.9	24.5	20.5
1.75V/cell	555.5	440.2	350.2	264.9	198.6	145.5	117.6	84.4	69.3	51.6	42.5	36.0	24.9	20.6
1.70V/cell	590.3	445.7	354.5	280.4	206.6	153.3	122.3	87.7	71.5	53.1	43.3	36.4	25.2	20.8
1.67V/cell	612.0	452.5	360.0	292.3	214.0	157.1	125.7	90.1	73.4	54.5	44.2	37.0	25.5	20.9
1.60V/cell	620.8	459.4	365.5	299.0	219.0	159.7	128.2	91.7	73.9	55.0	44.6	37.4	25.6	21.2

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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

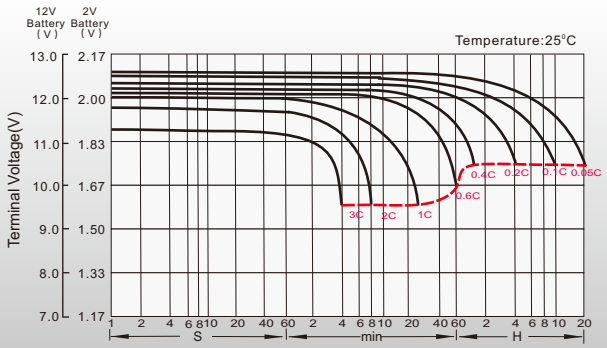
General Features

- 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

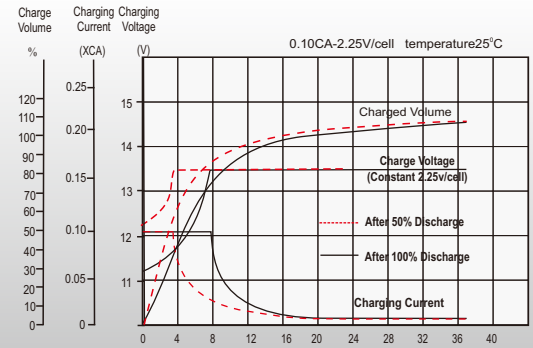
Standards

- 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

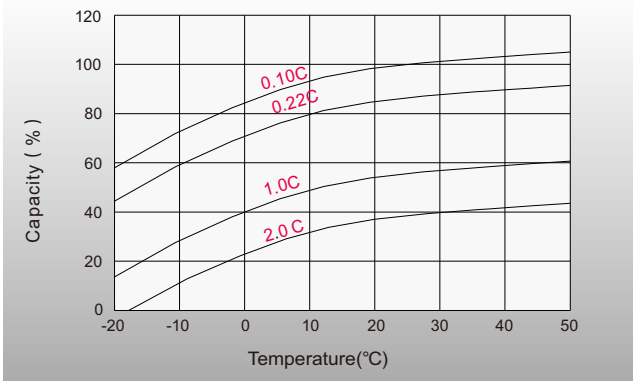
Discharge Characteristics



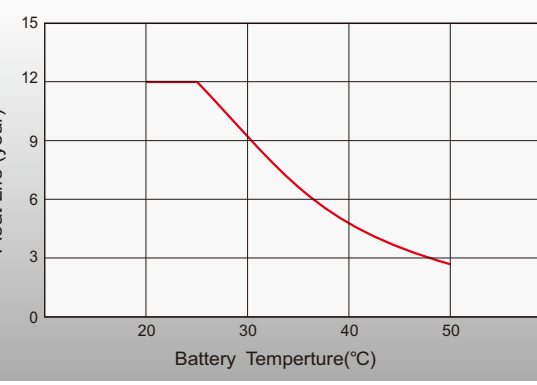
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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