LHR Series-High Rate

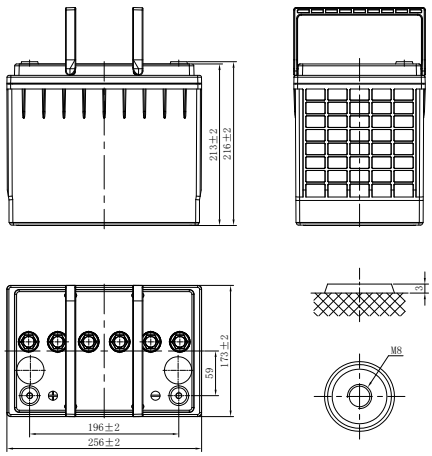
LHR12300W(12V300W)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Rate(W_{15},1.67V/cell) Nominal Capacity(C_{10},1.80V/cell)		300W/cell 75Ah
Dimension	Length	256±2mm (10.1 inches)
	Width	173±2mm (6.81 inches)
	Container Height	213±2mm (8.39 inches)
	Total Height	216±2mm (8.50 inches)
Approx Weight		23.7kg (52.3 lbs)
Terminal		M8
Container Material		ABS: UL 94 HB or V-0
Rated Capacity(25℃)	75.0 Ah	C10(7.50A,1.80V/cell)
	69.8 Ah	C8(8.72A,1.80V/cell)
	65.5 Ah	C5(13.1A,1.75V/cell)
	58.5 Ah	C3(19.5A,1.75V/cell)
	44.1 Ah	C1(44.1A,1.60V/cell)
Max. Discharge Current		750A (5s)
Internal Resistance(25℃)		Approx 5.0mΩ
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℃)		18.75A
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	177.6	145.4	133.5	102.3	73.5	51.6	39.4	27.1	21.7	18.2	14.4	12.6	8.35	7.22
1.80V/cell	195.4	158.2	139.8	113.9	78.6	54.5	41.6	28.7	22.9	19.0	15.2	12.9	8.72	7.50
1.75V/cell	213.1	171.0	150.0	115.3	80.3	55.9	42.7	29.4	23.5	19.5	15.5	13.1	8.90	7.63
1.70V/cell	230.9	183.8	154.8	117.6	81.8	56.7	43.3	29.8	23.8	19.7	15.6	13.2	8.99	7.70
1.67V/cell	252.2	195.8	159.6	119.9	82.0	57.1	43.6	30.0	24.0	19.8	15.7	13.2	9.02	7.74
1.60V/cell	257.5	200.1	162.1	123.2	83.3	57.7	44.1	30.3	24.3	20.0	15.8	13.3	9.09	7.80

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	333.9	273.3	251.0	192.3	138.2	105.4	80.5	55.4	44.3	37.2	29.5	25.7	17.1	14.8
1.80V/cell	367.3	297.4	262.8	214.1	147.8	111.5	85.1	58.6	46.9	38.9	31.1	26.5	17.8	15.3
1.75V/cell	400.7	321.5	281.9	216.8	151.0	114.3	87.2	60.0	48.0	39.8	31.6	26.8	18.2	15.6
1.70V/cell	434.1	345.6	291.0	221.1	153.8	115.9	88.5	60.9	48.7	40.4	31.9	27.0	18.4	15.7
1.67V/cell	474.1	368.1	300.0	225.4	154.2	116.7	89.1	61.3	49.0	40.6	32.1	27.1	18.4	15.8
1.60V/cell	484.2	376.2	304.7	231.6	156.6	118.0	90.1	62.0	49.6	40.9	32.3	27.2	18.6	15.9

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Applications

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

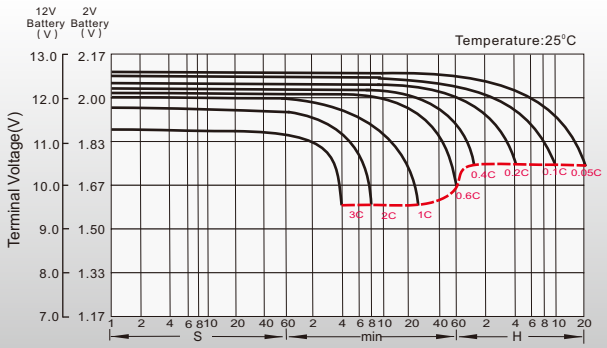
General Features

- 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

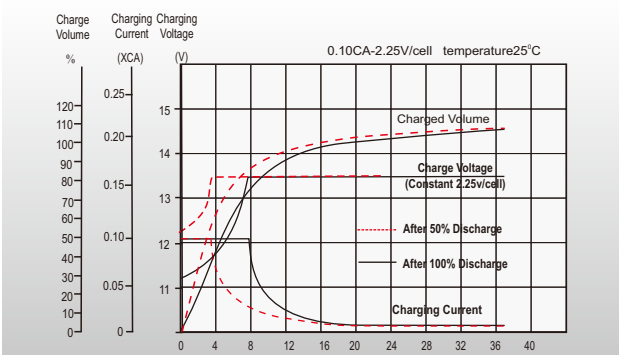
Standards

- 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

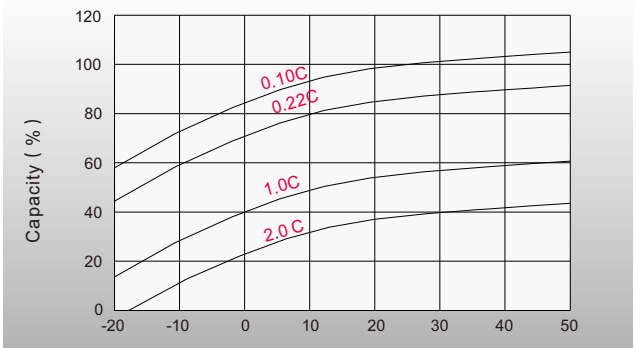
Discharge Characteristics



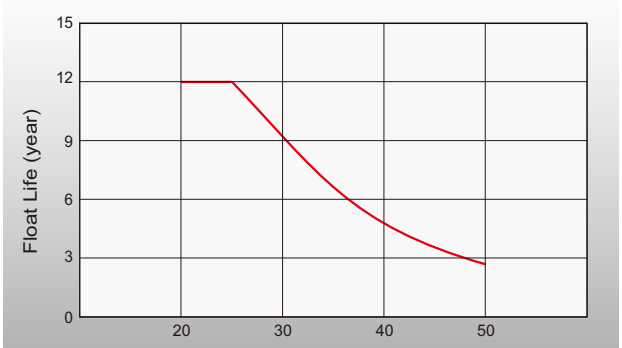
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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