LHR Series-High Rate

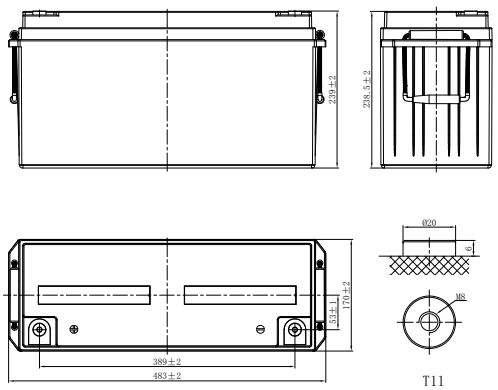
LHR12560W(12V560W)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Rate(W_{15},1.67V/cell)		560W/cell
Nominal Capacity(C_{10},1.80V/cell)		145Ah
Dimension	Length	483±2mm (19.0 inches)
	Width	170±2mm (6.69 inches)
	Container Height	238.5±2mm (9.39 inches)
	Total Height	239±2mm (9.41 inches)
Approx Weight		46.5kg (102.5 lbs)
Terminal		M8
Container Material		ABS:UL94HB or V-0
Rated Capacity(25℃)	145.0 Ah	C10(14.5A,1.80V/cell)
	134.4 Ah	C8(16.8A,1.80V/cell)
	127.5 Ah	C5(25.5A,1.75V/cell)
	113.1 Ah	C3(37.7A,1.75V/cell)
	92.3 Ah	C1(92.3A,1.60V/cell)
Max. Discharge Current		1450A (5s)
Internal Resistance(25℃)		Approx3.5mΩ
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℃)		36.25A
		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	335.0	267.4	231.9	182.4	126.4	98.5	79.8	58.6	47.9	35.7	28.2	23.9	16.5	14.1
1.80V/cell	381.0	303.6	262.8	206.2	142.5	104.6	82.5	60.4	50.7	36.9	29.3	24.8	16.8	14.5
1.75V/cell	413.8	329.2	284.5	222.6	153.2	110.9	85.9	62.9	52.7	37.7	30.2	25.5	17.0	14.6
1.70V/cell	442.4	351.0	302.1	236.0	162.5	116.3	89.6	65.5	53.9	38.5	31.0	26.1	17.3	14.7
1.67V/cell	457.8	362.1	310.9	242.4	166.3	119.5	90.6	67.2	55.2	39.3	31.4	26.5	17.5	14.9
1.60V/cell	474.0	374.5	320.6	248.7	170.4	122.5	92.3	69.4	56.3	40.3	32.1	27.0	17.6	15.0

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	625.6	503.1	439.0	346.8	241.5	189.3	154.4	113.6	93.2	69.7	55.3	47.0	32.7	28.0
1.80V/cell	699.8	562.8	491.1	388.0	270.1	199.7	158.7	116.4	98.2	71.7	57.2	48.7	33.3	28.8
1.75V/cell	746.9	600.7	524.2	414.1	288.3	210.5	164.5	120.7	101.6	73.1	58.9	49.9	33.6	28.9
1.70V/cell	785.2	631.5	551.0	435.3	303.1	219.4	170.7	125.1	103.6	74.4	60.1	50.9	34.1	29.1
1.67V/cell	798.0	641.8	560.0	442.4	308.0	224.1	171.6	127.7	105.6	75.7	60.7	51.4	34.4	29.5
1.60V/cell	809.2	650.7	567.8	448.6	312.3	227.5	173.6	131.1	107.0	77.2	61.8	52.2	34.5	29.6

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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

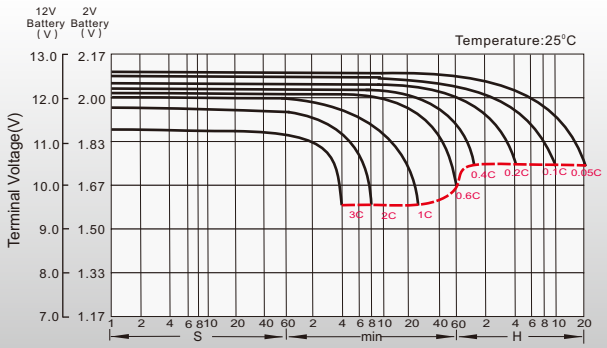
General Features

- 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

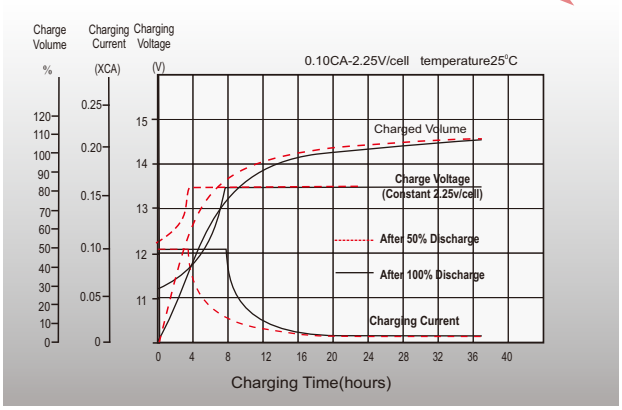
Standards

- 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

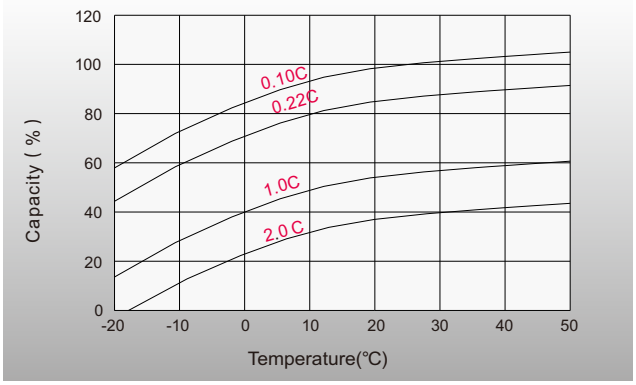
Discharge Characteristics



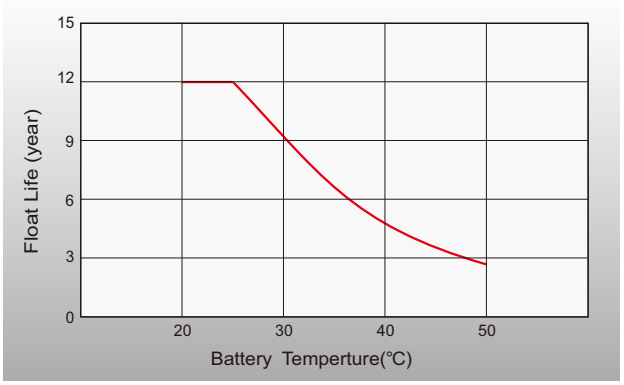
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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