



LHR Series-High Rate

LHR12510W(A)(12V510W)

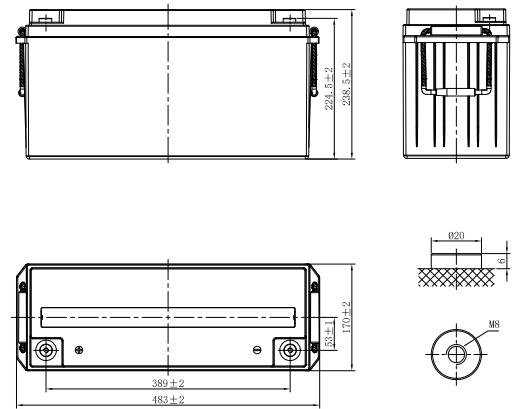


Specifications

Rated Voltage	12V		
Nominal Rate($W_{15}, 1.67V/cell$)	510W/cell		
Nominal Capacity($C_{10}, 1.80V/cell$)	130Ah		
Dimension	Length	483±2mm (19.0 inches)	
	Width	170±2mm (6.69 inches)	
	Container Height	238.5±2mm (9.39 inches)	
	Total Height	238.5±2mm (9.39 inches)	
Approx Weight	43.7kg (96.3 lbs)		
Terminal	M8		
Container Material	ABS: UL 94 HB or V-0 optional		
Rated Capacity(25°C)	130.0 Ah	C10(13.0A, 1.80V/cell)	
	120.8 Ah	C8(15.1A, 1.80V/cell)	
	114.5 Ah	C5(22.9A, 1.75V/cell)	
	101.4 Ah	C3(33.8A, 1.75V/cell)	
	82.7 Ah	C1(82.7A, 1.60V/cell)	
Max. Discharge Current	1300A (5s)		
Internal Resistance(25°C)	Approx 3.6mΩ		
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)	
	Charge	-20 ~ 40°C (-4 ~ 104°F)	
	Storage	-15 ~ 50°C (5 ~ 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Max. Charging Current(25°C)	32.5A		
Charge voltage(25°C)	Float	2.25 ~ 2.30V/cell	-3mV/cell/°C
	Equalization	2.30~2.40V/cell	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	106%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	≤3%/month @ 25°C		



Layout

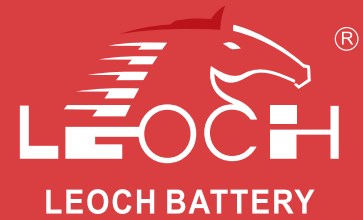


Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	305.1	243.6	211.2	166.1	115.1	88.3	71.5	52.5	43.0	32.0	25.3	21.4	14.8	12.6
1.80V/cell	347.0	276.5	239.3	187.7	129.8	93.8	74.0	54.1	45.5	33.1	26.2	22.2	15.1	13.0
1.75V/cell	377.3	300.2	259.3	202.9	139.7	99.4	77.0	56.4	47.2	33.8	27.1	22.9	15.2	13.1
1.70V/cell	402.9	319.7	275.2	214.9	148.0	105.0	80.4	58.7	48.4	34.5	27.8	23.4	15.5	13.1
1.67V/cell	417.0	329.8	283.2	220.8	151.5	107.3	81.2	60.3	49.5	35.3	28.1	23.7	15.7	13.3
1.60V/cell	431.7	341.1	292.0	226.5	155.2	110.2	82.7	62.3	50.5	36.2	28.8	24.2	15.7	13.4

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	569.8	458.2	399.8	315.9	219.9	169.8	138.4	101.8	83.6	62.5	49.6	42.2	29.4	25.1
1.80V/cell	637.4	512.6	447.3	353.3	246.0	179.1	142.3	104.4	88.1	64.3	51.3	43.6	29.9	25.8
1.75V/cell	681.0	547.6	477.9	377.5	262.8	188.7	147.5	108.2	91.1	65.5	52.8	44.7	30.1	25.9
1.70V/cell	715.1	575.1	501.8	396.5	276.0	198.0	153.1	112.2	92.8	66.7	53.9	45.6	30.5	26.0
1.67V/cell	726.8	584.5	510.0	402.9	280.5	201.3	153.9	114.5	94.7	67.8	54.4	46.1	30.8	26.4
1.60V/cell	736.9	592.6	517.1	408.5	284.4	204.6	155.6	117.6	95.9	69.2	55.4	46.8	30.9	26.5



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Applications

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

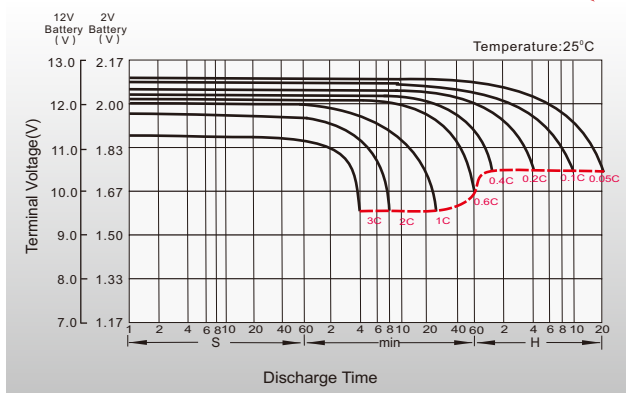
General Features

- 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

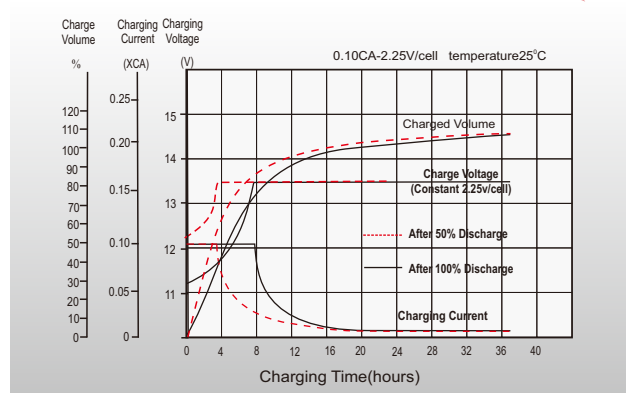
Standards

- Compliance with IEC 60896 and YD/T 3427 standards
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

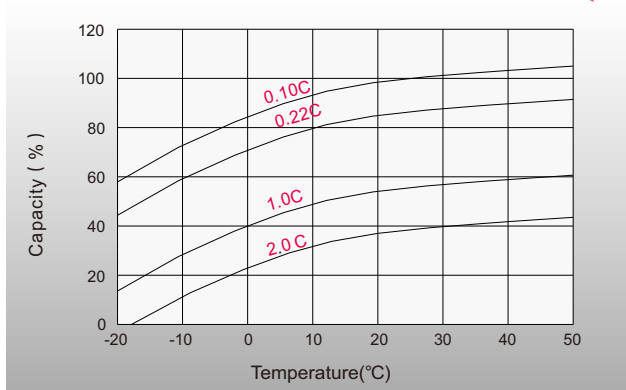
Discharge Characteristics



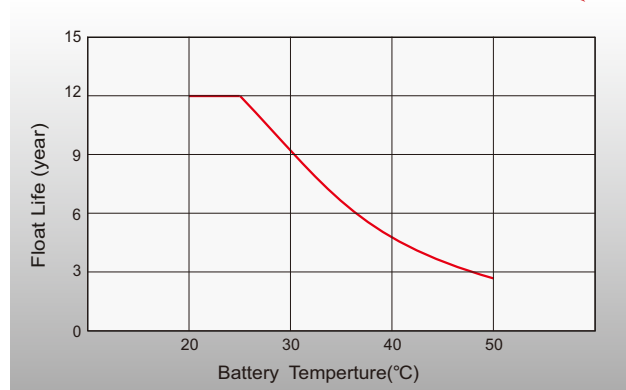
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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