



LHR Series-High Rate

LHR1236W(12V36W)

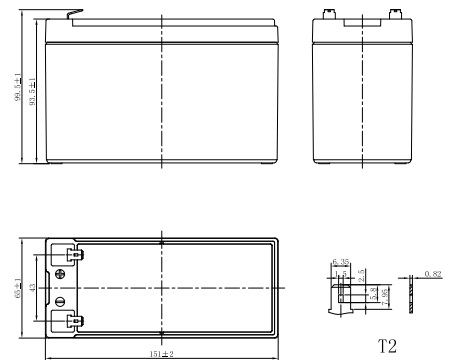


Specifications

Rated Voltage	12V		
Nominal Rate($W_{15}, 1.67V/cell$)	36W/cell		
Nominal Capacity($C_{20}, 1.75V/cell$)	8.0Ah		
Dimension	Length	151±2mm (5.94 inches)	
	Width	65±1mm (2.56 inches)	
	Container Height	93.5±1mm (3.68 inches)	
	Total Height	99.5±1mm (3.92 inches)	
Approx Weight	2.70kg (5.95 lbs)		
Terminal	T2		
Container Material	ABS: UL 94 HB or V-0		
Rated Capacity(25°C)	7.49 Ah	C10(0.749A, 1.80V/cell)	
	7.36 Ah	C8(0.920A, 1.80V/cell)	
	6.90 Ah	C5(1.38A, 1.75V/cell)	
	6.12 Ah	C3(2.04A, 1.75V/cell)	
	5.59 Ah	C1(5.59A, 1.60V/cell)	
Max. Discharge Current	120A (5s)		
Internal Resistance(25°C)	Approx 16mΩ		
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)	2.00A		
Charge voltage(25°C)	Charge voltage	Temp. Coefficient	
	Float	2.25 ~ 2.30V/cell	-3mV/cell/°C
Effect of temp. to Capacity	Equalization	2.30~2.40V/cell	-4mV/cell/°C
	40°C (104°F)		106%
	25°C (77°F)		100%
Self Discharge	0°C (32°F)		86%
	≤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	20h
1.85V/cell	31.7	20.7	16.7	12.8	8.94	6.35	5.05	3.59	2.74	1.98	1.57	1.34	0.900	0.739	0.391
1.80V/cell	34.1	21.9	17.6	13.3	9.22	6.53	5.18	3.67	2.79	2.01	1.60	1.36	0.920	0.749	0.396
1.75V/cell	35.9	22.8	18.1	13.7	9.46	6.67	5.28	3.74	2.84	2.04	1.62	1.38	0.930	0.757	0.400
1.70V/cell	37.6	23.7	18.8	14.1	9.70	6.82	5.38	3.80	2.88	2.07	1.64	1.40	0.940	0.764	0.403
1.67V/cell	38.9	24.4	19.2	14.4	9.87	6.92	5.46	3.85	2.91	2.09	1.66	1.41	0.940	0.770	0.406
1.60V/cell	41.3	25.4	19.9	14.8	10.1	7.10	5.59	3.93	2.97	2.13	1.69	1.43	0.960	0.780	0.411

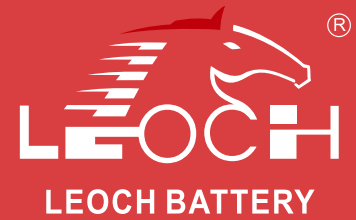
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	60.0	39.4	32.0	24.7	17.3	12.3	9.83	7.02	5.36	3.88	3.10	2.65	1.79	1.47	0.782
1.80V/cell	63.9	41.4	33.4	25.5	17.7	12.6	10.0	7.14	5.45	3.94	3.14	2.68	1.82	1.49	0.791
1.75V/cell	66.6	42.8	34.3	26.1	18.1	12.8	10.2	7.25	5.53	3.99	3.18	2.71	1.84	1.50	0.800
1.70V/cell	69.1	44.2	35.2	26.7	18.5	13.1	10.4	7.36	5.60	4.04	3.22	2.74	1.85	1.52	0.807
1.67V/cell	70.9	45.2	36.0	27.2	18.8	13.3	10.5	7.44	5.65	4.08	3.24	2.76	1.87	1.53	0.813
1.60V/cell	73.7	46.5	37.0	27.9	19.2	13.5	10.7	7.56	5.74	4.14	3.29	2.80	1.89	1.54	0.822



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Applications

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

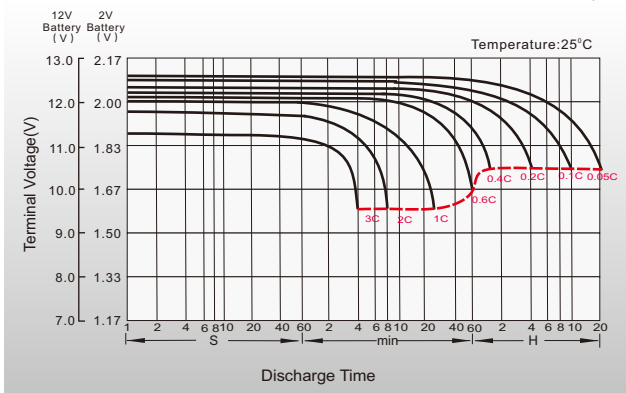
General Features

- Long-life design
- 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

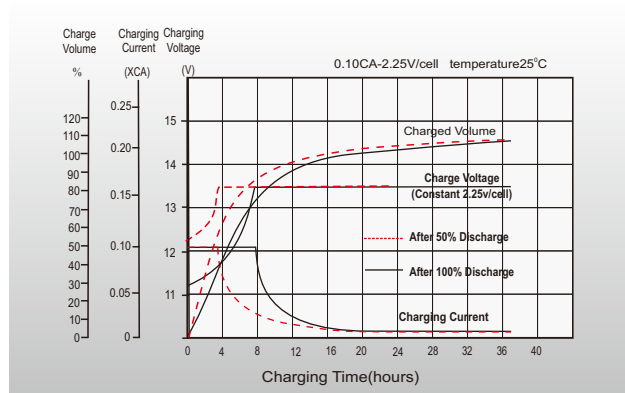
Standards

- 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

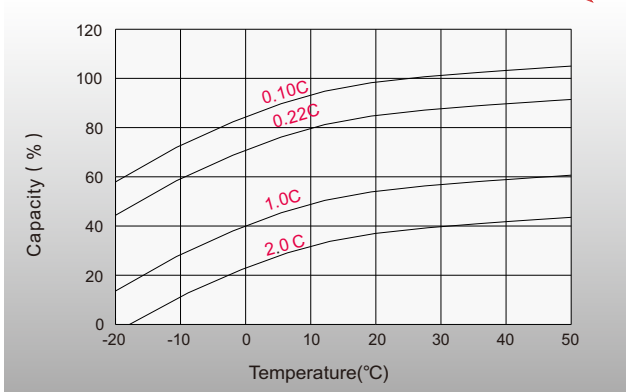
Discharge Characteristics



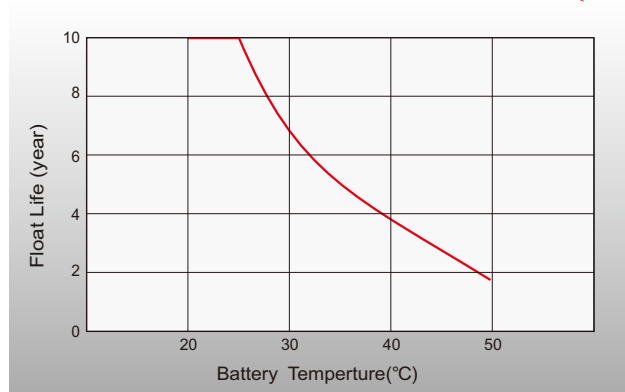
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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