

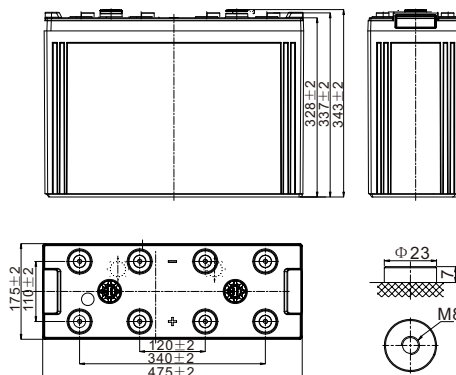
LHR Series High Rate LHR2900W(2V2900W)

Specifications

Rated Voltage	2V	
Nominal Rate ($W_{15}, 1.67V/cell$)	2900W	
Nominal Capacity ($C_{10}, 1.80V/cell$)	1000Ah	
Dimension	Length	475±2mm (18.70 inches)
	Width	175±2mm (6.89 inches)
	Container Height	328±2mm (12.91 inches)
	Total Height	343±2mm (13.50 inches)
Approx. Weight	62.0 Kg (136.69 lbs)	
Terminal	M8	
Container Material	ABS(UL94 V-0)	
Rated Capacity (25°C)	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	960.0 Ah	(8hr, 120.0A, 1.80V/cell)
	875.0 Ah	(5hr, 175.0A, 1.75V/cell)
	780.0 Ah	(3hr, 260.0A, 1.75V/cell)
	600.0 Ah	
Max. Discharge Current	8000A	
Internal Resistance (25°C)	Approx. 0.28mΩ	
Operating Temp. Range	Discharge	-20 ~ 55°C (4 ~ 131°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-15 ~ 50°C (5 ~ 122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Charging Current(25°C)	250.0A	
Charge voltage(25°C)	Float	2.25V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	2.35~2.40V
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	2123.0	1196.6	1001.8	872.8	713.8	564.4	494.0	379.8	307.6	234.0	188.2	158.8	112.0	93.8
1.80V/cell	2474.6	1411.2	1165.0	1005.8	807.0	631.2	546.8	415.6	334.8	253.2	203.0	171.2	120.0	100.0
1.75V/cell	2700.6	1513.0	1232.4	1055.4	843.6	656.8	567.0	429.6	345.0	260.0	208.0	175.0	122.2	101.6
1.70V/cell	2924.8	1613.8	1302.4	1110.6	880.8	681.6	587.8	444.0	356.0	267.6	213.2	179.0	124.4	103.2
1.67V/cell	3053.6	1672.8	1343.6	1142.0	903.0	697.0	600.0	452.0	362.0	271.6	216.2	181.2	125.6	104.0
1.60V/cell	3366.0	1810.0	1440.0	1216.0	954.0	733.0	629.2	472.2	377.0	281.6	223.4	186.8	128.6	106.2

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	4359.8	2680.0	2251.8	1967.6	1614.2	1280.4	1008.2	777.6	631.4	481.8	370.0	312.8	221.4	185.4
1.80V/cell	5005.6	3122.2	2591.4	2245.4	1809.8	1421.2	1108.2	845.8	683.4	519.2	397.4	335.8	236.6	197.6
1.75V/cell	5378.8	3307.2	2712.8	2333.4	1875.4	1467.6	1141.0	869.0	700.6	530.8	405.8	342.4	240.4	200.4
1.70V/cell	5730.4	3481.0	2834.8	2431.0	1940.4	1511.4	1174.8	893.0	719.2	543.8	414.6	349.2	244.2	203.2
1.67V/cell	5926.0	3580.4	2900.0	2484.0	1978.8	1537.6	1193.6	905.6	728.6	550.4	419.2	352.8	246.4	204.8
1.60V/cell	6367.0	3795.4	3058.6	2603.6	2063.8	1600.0	1240.0	938.2	753.4	567.4	431.0	362.0	251.4	208.6

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Applications

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

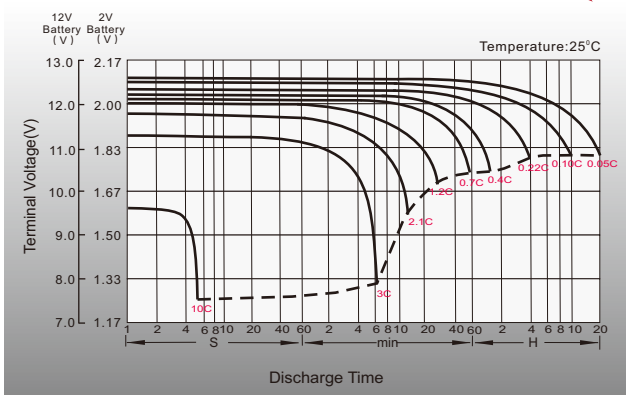
General Features

- ABS material: UL94 V-0
- Oxygen recombination efficiency: $\geq 98\%$
- High quality AGM separator: extend cycle life and prevent micro short circuit
- Unique vent valve design: reduce water losing and prevent air/spark going inside
- PbCaSn alloy for plate grids: less gassing, less self-discharging

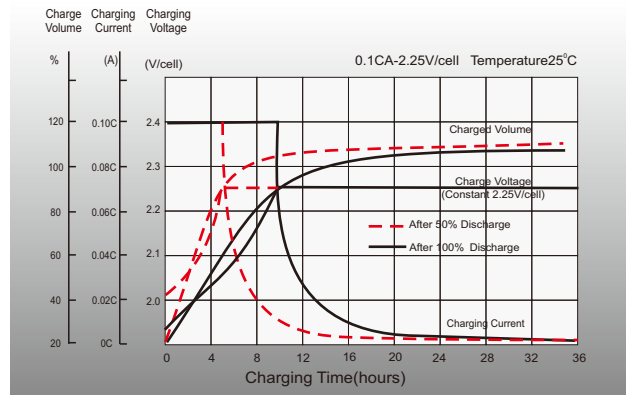
Standards

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoben (AT) 16949, 01585-10001, ISO 9001 and ISO 14001 certified production facilities

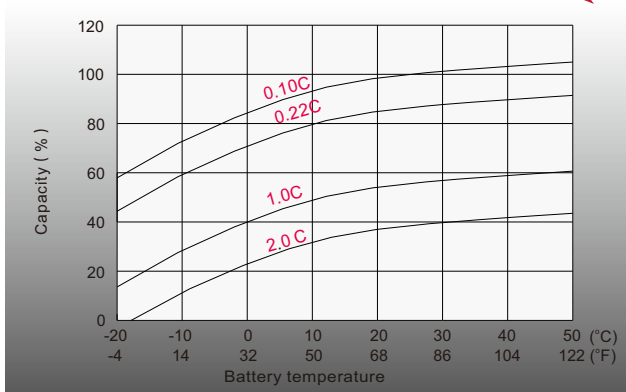
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life

