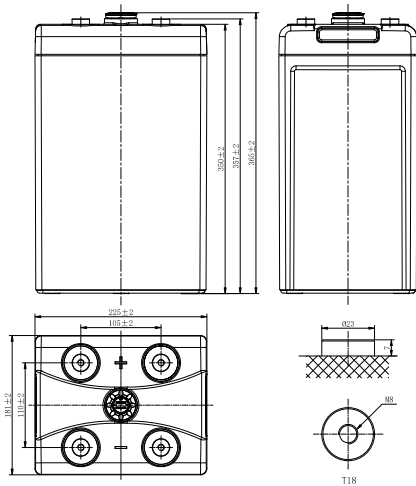


# LHR SERIES-HIGH RATE

## LHR1800W (2V1800W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Rate (25°C)	W <sub>15</sub> , 1.67V/cell	1800W/cell
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	600Ah
Dimension	Length	225mm (8.86inches)
	Width	181mm (7.13inches)
	Container Height	350mm (13.8inches)
	Total Height	365mm (14.4inches)
Approx Weight	36.2kg (79.8lbs)	
Terminal	T18(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	7200A	
Internal Resistance (25°C)	Approx 0.4 mΩ (Fully charged)	
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)	0.25C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.30-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-4mV/cell/°C
	40°C (104°F)	106%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	Self Discharge	≤ 3% per month at 25°C (77°F)

### DISCHARGE TABLE

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	1017.2	917.6	768.6	613.7	498.0	367.3	316.8	237.0	186.6	145.7	115.7	101.3	68.3	58.5
1.80V/cell	1187.4	1019.6	834.0	666.1	519.1	387.0	330.0	247.5	195.0	150.3	117.9	103.5	70.5	60.0
1.75V/cell	1315.5	1121.5	891.2	711.0	547.1	400.5	333.3	255.0	199.3	153.4	120.1	105.9	71.4	60.8
1.70V/cell	1369.4	1189.5	923.9	748.4	575.2	415.1	346.5	262.5	204.9	159.5	123.1	107.2	72.3	61.5
1.67V/cell	1401.1	1206.5	973.0	778.4	593.4	425.3	353.1	270.0	209.2	162.6	126.8	109.5	73.2	62.3
1.60V/cell	1420.7	1223.4	986.6	789.3	601.7	435.5	359.7	277.5	214.8	165.6	129.0	111.7	74.0	63.0

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	1881.8	1697.6	1421.8	1135.4	921.3	705.3	608.3	466.9	367.5	287.0	227.9	199.5	136.5	117.0
1.80V/cell	2196.6	1886.2	1542.9	1232.3	960.3	743.0	633.6	487.6	384.2	296.1	232.3	203.9	141.0	120.0
1.75V/cell	2433.7	2074.8	1648.7	1315.4	1012.2	769.0	639.9	502.4	392.6	302.1	236.6	208.6	142.8	121.5
1.70V/cell	2533.4	2200.6	1709.2	1384.6	1064.1	797.1	665.3	517.1	403.7	314.2	242.5	211.2	144.6	123.0
1.67V/cell	2592.0	2232.0	1800.0	1440.0	1097.8	816.7	678.0	531.9	412.1	320.3	249.8	215.6	146.4	124.5
1.60V/cell	2628.3	2263.2	1825.2	1460.2	1113.2	836.2	690.6	546.7	423.2	326.3	254.2	220.0	147.9	126.0

# LHR SERIES-HIGH RATE

## LHR1800W (2V1800W)



### APPLICATIONS

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

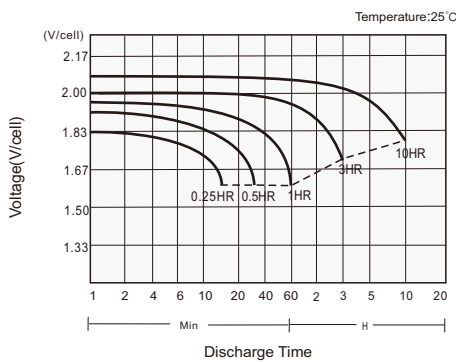
### GENERAL FEATURES

- 16 years design life (25°C)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space

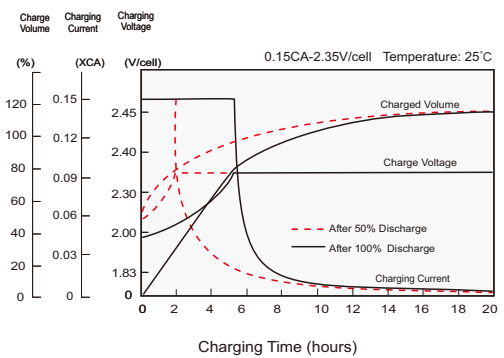
### STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE, UL Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

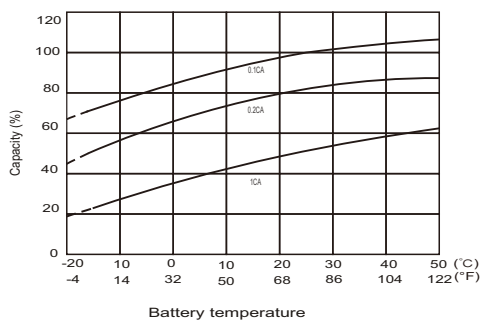
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

