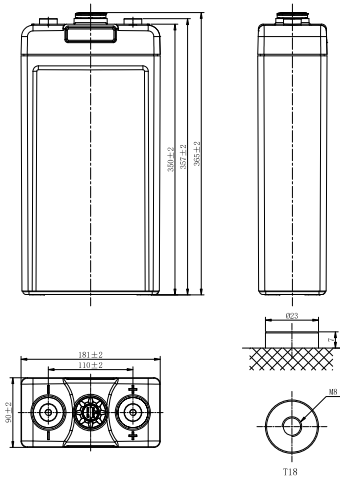


# LHR SERIES-HIGH RATE

## LHR500W (2V500W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	500W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	180Ah
Dimension	Length	90mm (3.54inches)
	Width	181mm (7.13inches)
	Container Height	350mm (13.8inches)
	Total Height	365mm (14.4inches)
Approx Weight	11.8kg (26.0lbs)	
Terminal	T18(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2160A	
Internal Resistance (25°C)	Approx 0.8 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	261.6	229.6	204.8	167.8	131.7	110.2	95.0	71.1	56.0	43.7	34.7	30.4	20.5	17.6
1.80V/cell	294.6	258.5	228.0	183.4	137.2	116.1	99.0	74.3	58.5	45.1	35.4	31.0	21.2	18.0
1.75V/cell	302.3	272.1	240.2	194.4	144.5	120.2	100.0	76.5	59.8	46.0	36.0	31.8	21.4	18.2
1.70V/cell	334.2	286.3	252.5	204.6	151.6	124.5	104.0	78.8	61.5	47.9	36.9	32.2	21.7	18.5
1.67V/cell	360.4	305.9	266.0	212.8	156.9	127.6	105.9	81.0	62.8	48.8	38.0	32.8	22.0	18.7
1.60V/cell	365.4	310.1	269.7	215.7	159.1	130.7	107.9	83.3	64.5	49.7	38.7	33.5	22.2	18.9

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	491.9	431.6	385.0	315.4	247.5	211.6	182.5	140.1	110.3	86.1	68.4	59.8	41.0	35.1
1.80V/cell	553.8	485.9	428.6	344.7	258.0	222.9	190.1	146.3	115.3	88.8	69.7	61.2	42.3	36.0
1.75V/cell	568.4	511.5	451.5	365.4	271.7	230.7	192.0	150.7	117.8	90.6	71.0	62.6	42.8	36.5
1.70V/cell	628.3	538.2	474.8	384.6	285.0	239.1	199.6	155.1	121.1	94.3	72.7	63.4	43.4	36.9
1.67V/cell	677.5	575.0	500.0	400.0	295.0	245.0	203.4	159.6	123.6	96.1	74.9	64.7	43.9	37.4
1.60V/cell	687.0	583.1	507.0	405.6	299.1	250.9	207.2	164.0	127.0	97.9	76.3	66.0	44.4	37.8

# LHR SERIES-HIGH RATE

## LHR500W (2V500W)



### APPLICATIONS

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

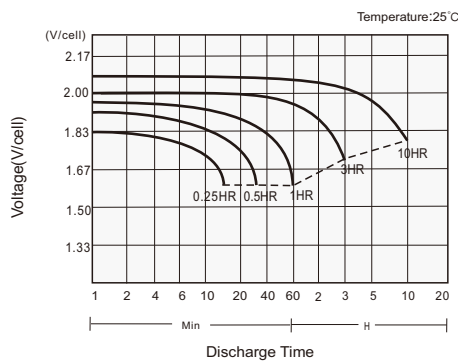
### GENERAL FEATURES

- 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

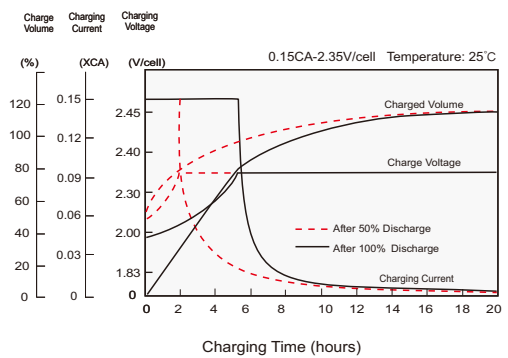
### STANDARDS

- 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

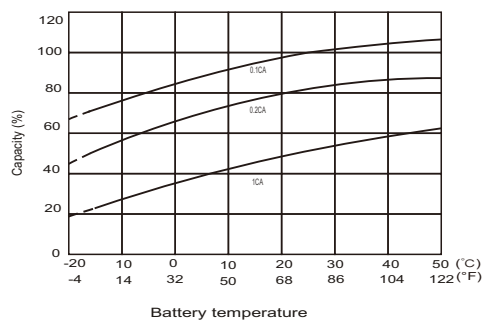
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

