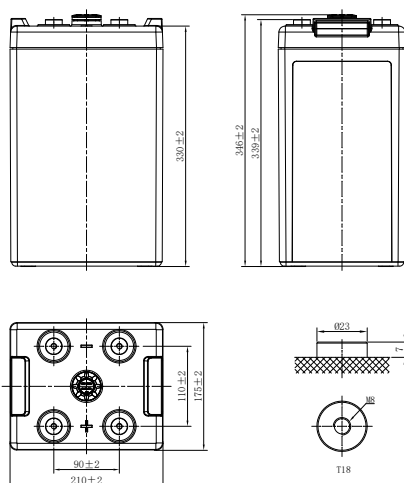


LHR SERIES-HIGH RATE

LHR1520W (2V1520W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	1520W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	500Ah
Dimension	Length	210mm (8.27inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	346mm (13.6inches)
Approx Weight		29.7kg (65.5lbs)
Terminal		T18(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		6000A
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	695.7	677.3	649.0	518.3	420.6	306.1	264.0	197.5	155.5	121.4	96.4	84.4	56.9	48.8
1.80V/cell	812.2	752.5	704.2	562.5	438.3	322.5	275.0	206.3	162.5	125.3	98.3	86.2	58.8	50.0
1.75V/cell	899.8	827.8	752.6	600.4	462.0	333.8	277.8	212.5	166.1	127.8	100.1	88.2	59.5	50.6
1.70V/cell	936.7	877.9	780.2	632.0	485.7	346.0	288.8	218.8	170.8	132.9	102.6	89.3	60.3	51.3
1.67V/cell	1011.6	890.4	821.6	657.3	501.1	354.5	294.3	225.0	174.3	135.5	105.7	91.2	61.0	51.9
1.60V/cell	1025.7	902.9	833.1	666.5	508.1	362.9	299.8	231.3	179.0	138.0	107.5	93.1	61.6	52.5

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	1258.5	1252.9	1200.7	958.8	918.0	587.7	506.9	389.1	306.3	239.2	189.9	166.2	113.8	97.5
1.80V/cell	1469.1	1392.1	1302.9	1040.6	969.6	619.2	528.0	406.3	320.2	246.7	193.6	169.9	117.5	100.0
1.75V/cell	1627.6	1531.3	1392.3	1110.8	1050.4	640.9	533.3	418.6	327.2	251.8	197.2	173.8	119.0	101.3
1.70V/cell	1694.3	1624.2	1474.6	1169.2	1080.7	664.2	554.4	430.9	336.4	261.8	202.1	176.0	120.5	102.5
1.67V/cell	1829.8	1647.3	1520.0	1216.0	1090.8	680.6	565.0	443.3	343.4	266.9	208.2	179.7	122.0	103.8
1.60V/cell	1855.4	1670.4	1541.3	1233.0	1109.2	696.9	575.5	455.6	352.7	271.9	211.8	183.4	123.3	105.0

LHR SERIES-HIGH RATE

LHR1520W (2V1520W)



APPLICATIONS

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

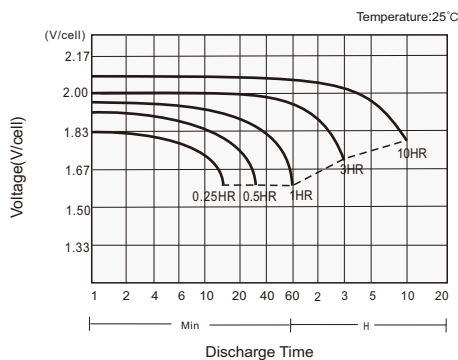
GENERAL FEATURES

- 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

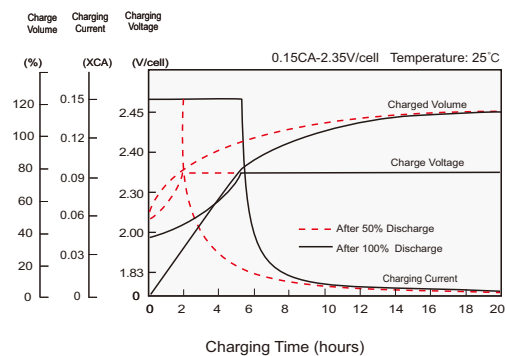
STANDARDS

- 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

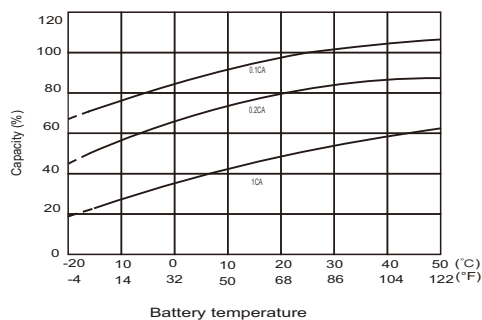
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

