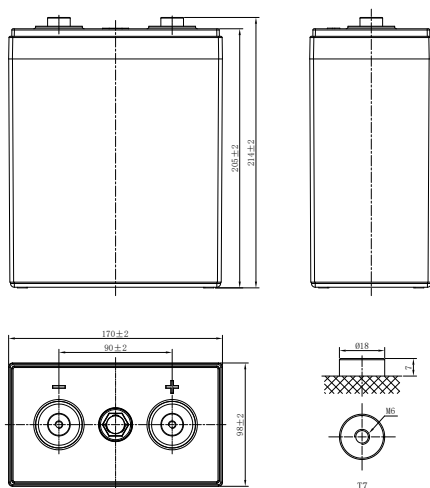


LHR SERIES-HIGH RATE

LHR500W (2V500W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	500W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	150Ah
Dimension	Length	170mm(6.69inches)
	Width	98mm(3.86inches)
	Container Height	205mm(8.07inches)
	Total Height	214mm(8.43inches)
Approx Weight		8.4kg(18.5lbs)
Terminal		T7(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1800A
Internal Resistance (25°C)		Approx 0.9 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	248.5	216.8	192.4	151.3	116.8	90.7	80.4	58.3	49.0	35.7	28.8	25.2	17.3	14.3
1.80V/cell	279.9	245.7	218.0	171.1	126.4	95.7	83.3	60.3	50.6	37.9	30.7	26.6	18.2	15.0
1.75V/cell	287.2	266.0	236.0	184.7	137.4	102.0	87.4	63.4	53.3	39.1	31.3	27.0	18.3	15.2
1.70V/cell	317.5	282.5	250.7	195.8	140.5	104.2	89.2	64.6	54.3	40.3	31.9	27.5	18.6	15.3
1.67V/cell	342.4	290.8	258.0	201.2	142.6	105.7	90.5	65.6	55.1	40.8	32.4	28.0	18.8	15.5
1.60V/cell	347.1	299.8	266.0	206.3	146.3	107.8	91.8	66.5	55.9	41.2	32.7	28.4	19.1	15.7
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	467.3	422.8	375.2	287.7	223.1	174.3	155.5	113.0	95.3	69.8	56.4	49.7	43.9	34.3
1.80V/cell	526.1	473.0	419.7	321.9	239.5	182.8	160.2	116.3	97.9	73.6	60.0	52.0	45.6	35.9
1.75V/cell	540.0	504.8	447.9	343.5	258.4	193.6	167.4	121.7	102.7	75.9	61.0	52.8	46.3	36.0
1.70V/cell	596.9	530.7	470.9	361.2	262.1	196.4	169.8	123.6	104.3	77.8	61.8	53.5	46.9	36.6
1.67V/cell	643.6	563.5	500.0	367.0	263.8	198.1	171.4	124.8	105.4	78.5	62.5	54.4	47.6	37.0
1.60V/cell	652.7	571.3	507.0	372.2	267.1	200.1	172.6	125.7	106.2	78.8	63.0	54.9	48.3	37.4

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

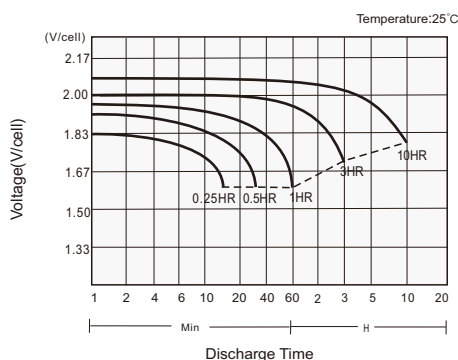
GENERAL FEATURES

- 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

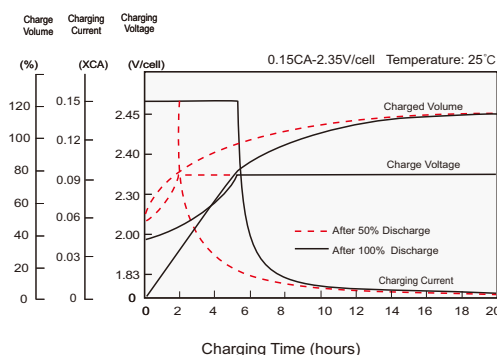
STANDARDS

- 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

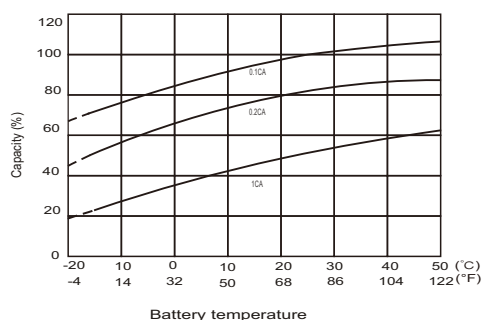
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

