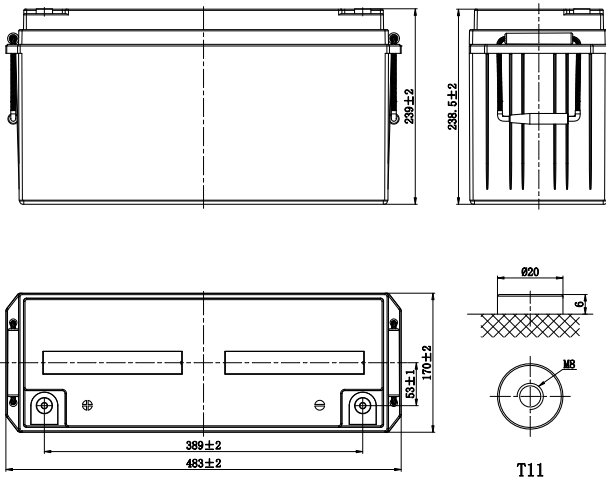


LHR SERIES-HIGH RATE

LHR12510W (12V510W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W_{15} , 1.67V/cell	510W/cell
Nominal Capacity (25°C)	C_{10} , 1.80V/cell	140Ah
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	239mm (9.41inches)
Approx Weight	43.6kg (96.1lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2800A	
Internal Resistance (25°C)	Approx 3.6 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)	Standby Use	Equalization Use
	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	305.1	243.6	211.2	166.1	117.2	85.7	77.0	56.6	46.3	34.5	27.2	23.0	15.9	13.6
1.80V/cell	347.0	276.5	239.3	187.7	132.1	91.6	79.6	58.3	49.0	35.6	28.3	24.0	16.3	14.0
1.75V/cell	376.9	299.8	259.1	202.7	142.1	95.8	82.9	60.7	50.9	36.4	29.2	24.6	16.4	14.1
1.70V/cell	402.9	319.7	275.2	214.9	150.6	99.3	86.5	63.2	52.1	37.2	29.9	25.2	16.7	14.2
1.67V/cell	417.0	329.8	283.2	220.8	154.2	104.2	87.5	64.9	53.3	38.0	30.3	25.5	16.9	14.4
1.60V/cell	431.7	341.1	292.0	226.5	158.0	110.0	89.1	67.1	54.4	38.9	31.0	26.0	16.9	14.5

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	569.8	458.2	399.8	315.9	223.9	164.9	149.0	109.7	90.0	67.3	53.4	45.4	31.6	27.1
1.80V/cell	637.4	512.6	447.3	353.3	250.5	175.0	153.2	112.4	94.8	69.2	55.2	47.0	32.2	27.8
1.75V/cell	680.2	547.1	477.4	377.1	267.3	182.0	158.8	116.5	98.1	70.5	56.9	48.2	32.4	27.9
1.70V/cell	715.1	575.1	501.8	396.5	281.0	187.2	164.9	120.8	100.0	71.8	58.0	49.1	32.9	28.1
1.67V/cell	726.8	584.5	510.0	402.9	285.6	195.4	165.7	123.3	102.0	73.1	58.6	49.6	33.2	28.4
1.60V/cell	736.9	592.6	517.1	408.5	289.6	204.3	167.6	126.6	103.3	74.5	59.6	50.4	33.3	28.6

LHR SERIES-HIGH RATE

LHR12510W (12V510W)



APPLICATIONS

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

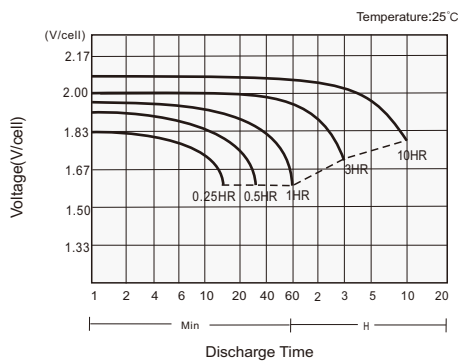
GENERAL FEATURES

- 12 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

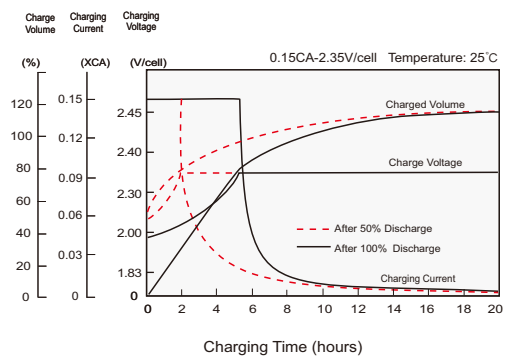
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE, UL Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

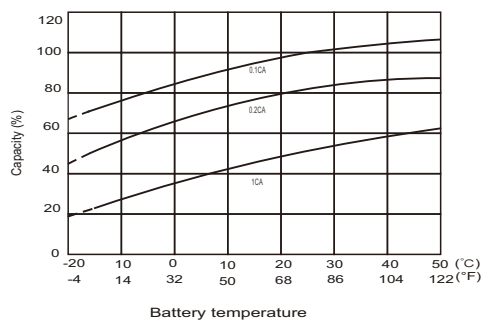
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

