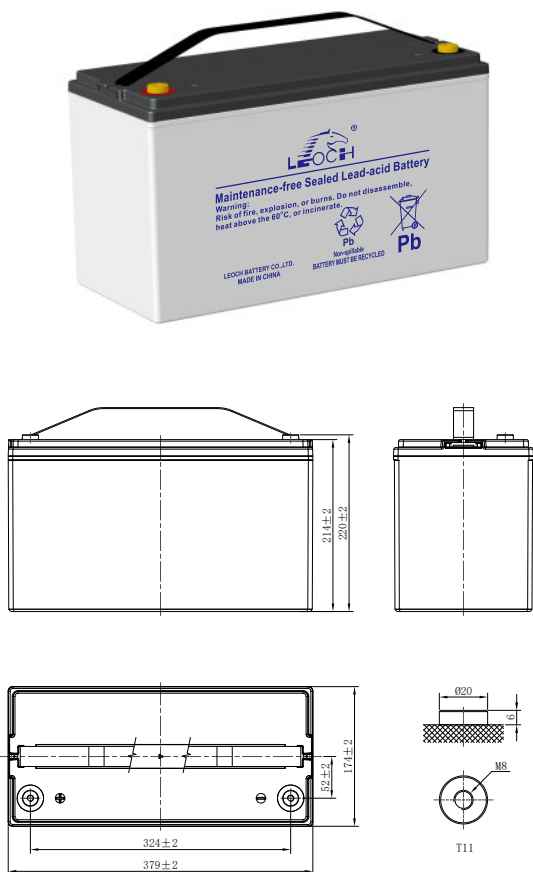


LHR SERIES-HIGH RATE

LHR12440W(A) (12V440W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	440W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	115Ah
Dimension	Length	379mm(14.9inches)
	Width	174mm(6.85inches)
	Container Height	214mm(8.43inches)
	Total Height	220mm(8.66inches)
Approx Weight		36.6kg(80.7lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2300A
Internal Resistance (25°C)		Approx 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	2.25-2.30V/cell
	Equalization Charge	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	263.2	210.1	182.2	143.3	99.3	78.1	63.3	46.5	38.0	28.3	22.4	18.9	13.1	11.2
1.80V/cell	299.3	238.5	206.5	162.0	112.0	82.9	65.4	47.9	40.2	29.2	23.2	19.7	13.4	11.5
1.75V/cell	319.6	254.3	219.7	171.9	118.3	87.9	68.1	49.8	41.8	29.9	24.0	20.2	13.5	11.6
1.70V/cell	339.1	269.1	231.6	180.9	124.5	92.3	71.1	51.9	42.8	30.5	24.6	20.7	13.7	11.7
1.67V/cell	359.7	284.5	244.3	190.5	130.7	94.8	71.9	53.3	43.8	31.2	24.9	21.0	13.8	11.8
1.60V/cell	372.5	294.3	251.9	195.4	133.9	97.1	73.2	55.1	44.7	32.0	25.4	21.4	13.9	11.9
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	491.6	395.3	345.0	272.5	189.7	150.2	122.4	90.1	73.9	55.3	43.9	37.3	26.0	22.2
1.80V/cell	549.9	442.2	385.9	304.8	212.2	158.4	125.8	92.3	77.9	56.9	45.4	38.6	26.4	22.8
1.75V/cell	576.8	463.9	404.8	319.8	222.6	167.0	130.4	95.7	80.6	57.9	46.7	39.6	26.6	22.9
1.70V/cell	601.9	484.1	422.4	333.7	232.3	174.0	135.4	99.2	82.1	59.0	47.6	40.4	27.0	23.0
1.67V/cell	627.0	504.2	440.0	347.6	242.0	177.8	136.1	101.3	83.7	60.0	48.1	40.7	27.2	23.4
1.60V/cell	635.8	511.3	446.2	352.5	245.4	180.4	137.7	104.0	84.9	61.2	49.0	41.4	27.3	23.5

LHR SERIES-HIGH RATE

LHR12440W(A) (12V440W)



APPLICATIONS

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

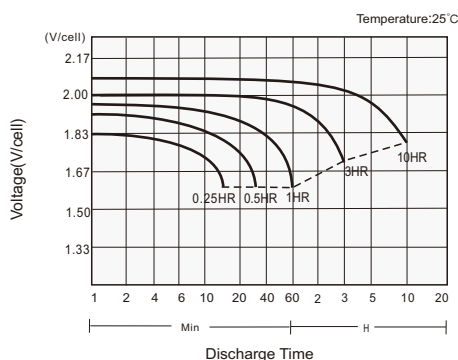
GENERAL FEATURES

- 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

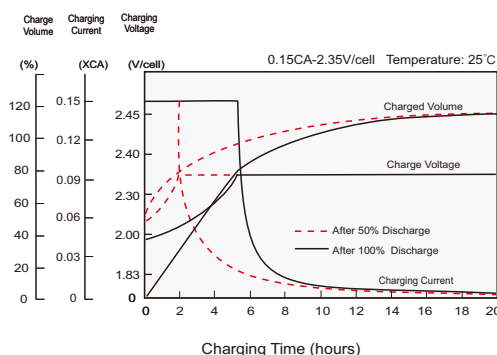
STANDARDS

- 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

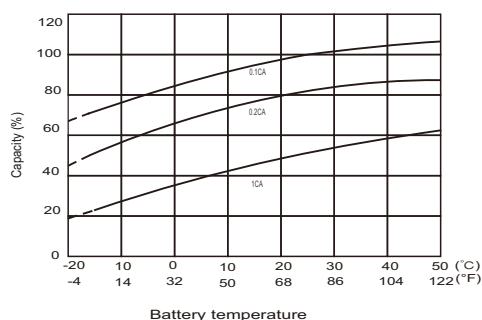
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

