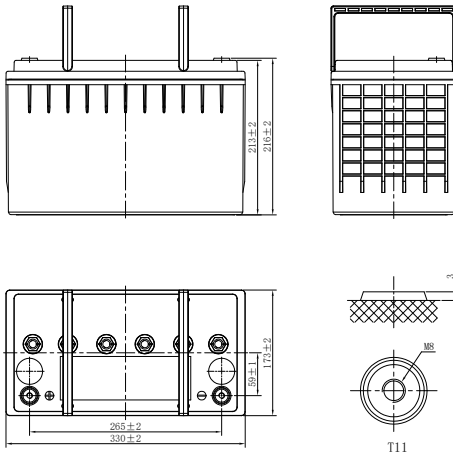


LHR SERIES-HIGH RATE

LHR12400W (12V400W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	400W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	100Ah
Dimension	Length	330mm (13.0inches)
	Width	173mm (6.81inches)
	Container Height	213mm (8.39inches)
	Total Height	216mm (8.50inches)
Approx Weight	31.2kg (68.8lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2500A	
Internal Resistance (25°C)	Approx 3.5 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	280.5	232.4	185.5	141.2	101.0	72.4	56.7	40.5	32.3	23.8	19.4	16.5	11.8	9.70
1.80V/cell	315.9	258.7	206.4	159.6	107.2	76.8	60.3	42.8	34.0	24.9	20.2	17.1	12.1	10.0
1.75V/cell	343.4	269.8	215.2	165.7	112.7	80.1	62.9	44.4	35.2	25.8	20.8	17.6	12.2	10.1
1.70V/cell	361.9	273.1	217.9	166.8	117.7	82.7	64.7	45.8	36.3	26.4	21.3	18.0	12.4	10.2
1.67V/cell	375.0	277.3	220.4	173.7	121.7	84.8	66.3	46.8	37.1	26.9	21.6	18.2	12.5	10.3
1.60V/cell	383.6	281.4	228.6	179.1	125.0	86.5	67.7	47.7	37.8	27.6	22.1	18.6	12.6	10.4

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	506.7	420.6	334.5	273.8	198.9	143.8	113.4	81.1	64.9	48.0	39.5	33.7	24.0	20.0
1.80V/cell	572.6	468.7	372.8	305.1	209.9	151.8	120.1	85.5	68.1	50.1	41.0	35.0	24.5	20.5
1.75V/cell	617.2	489.1	389.1	318.4	219.2	157.7	124.8	88.4	70.3	51.8	42.4	36.0	24.9	20.6
1.70V/cell	655.9	495.2	393.9	322.4	227.1	161.9	127.6	90.6	72.1	53.1	43.3	36.6	25.1	20.8
1.67V/cell	680.0	502.8	400.0	327.3	232.6	165.0	129.8	92.8	73.4	54.5	44.1	37.0	25.4	20.9
1.60V/cell	689.7	510.5	408.3	332.3	236.0	168.5	131.5	94.6	74.7	55.0	44.6	37.6	25.6	21.2

LHR SERIES-HIGH RATE

LHR12400W (12V400W)



APPLICATIONS

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

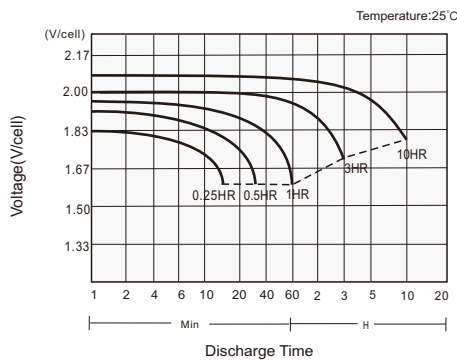
GENERAL FEATURES

- 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

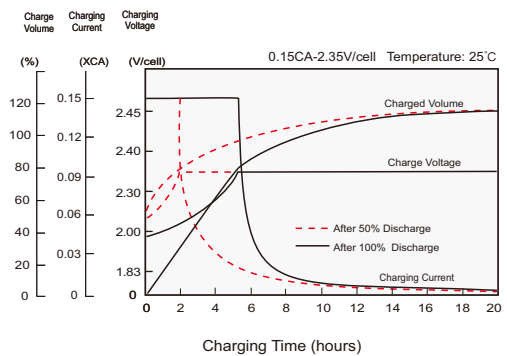
STANDARDS

- 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

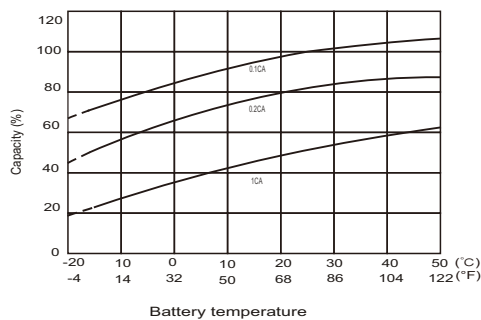
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

