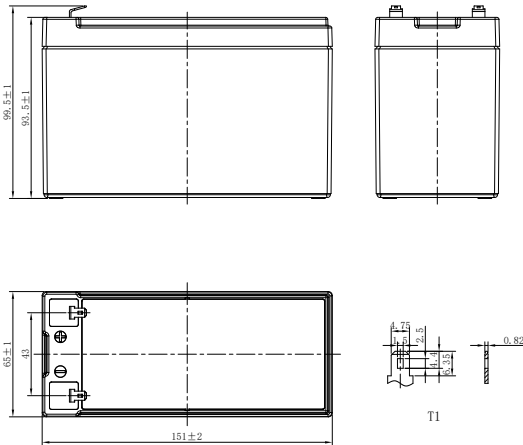


# LHR SERIES-HIGH RATE

## LHR1236W(A) (12V36W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	36W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	8.43Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.46kg (5.42lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	236A	
Internal Resistance (25°C)	Approx 16 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	29.7	20.4	15.8	12.7	9.34	6.72	5.41	3.92	3.08	2.22	1.77	1.51	1.02	0.832
1.80V/cell	31.9	21.6	16.6	13.2	9.63	6.90	5.54	4.00	3.14	2.26	1.80	1.53	1.03	0.843
1.75V/cell	33.7	22.4	17.2	13.6	9.88	7.05	5.66	4.08	3.19	2.30	1.82	1.55	1.04	0.851
1.70V/cell	35.2	23.4	17.8	14.0	10.1	7.21	5.76	4.15	3.24	2.33	1.85	1.57	1.05	0.860
1.67V/cell	36.5	24.0	18.2	14.2	10.3	7.32	5.85	4.20	3.28	2.35	1.86	1.58	1.06	0.866
1.60V/cell	38.7	25.0	18.8	14.7	10.6	7.50	5.98	4.29	3.34	2.40	1.90	1.61	1.08	0.877

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	57.1	39.4	32.0	24.8	18.1	13.0	10.5	7.66	6.03	4.37	3.49	2.98	2.02	1.65
1.80V/cell	60.8	41.4	33.4	25.7	18.5	13.3	10.8	7.79	6.13	4.43	3.53	3.02	2.04	1.67
1.75V/cell	63.3	42.8	34.3	26.3	18.9	13.6	10.9	7.91	6.22	4.49	3.58	3.05	2.06	1.69
1.70V/cell	65.7	44.2	35.2	26.9	19.3	13.8	11.1	8.03	6.30	4.55	3.62	3.09	2.08	1.71
1.67V/cell	67.4	45.2	36.0	27.4	19.6	14.0	11.2	8.11	6.36	4.59	3.65	3.11	2.10	1.72
1.60V/cell	70.1	46.5	37.0	28.0	20.0	14.3	11.4	8.25	6.46	4.66	3.71	3.15	2.13	1.74

# LHR SERIES-HIGH RATE

## LHR1236W(A) (12V36W)



### APPLICATIONS

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

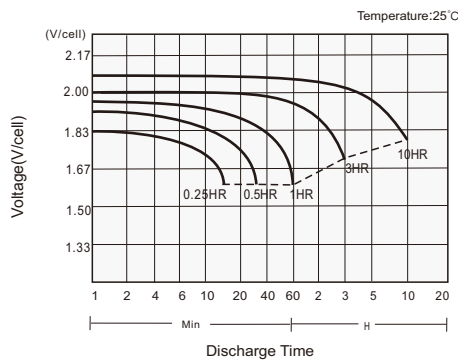
### GENERAL FEATURES

- 6 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

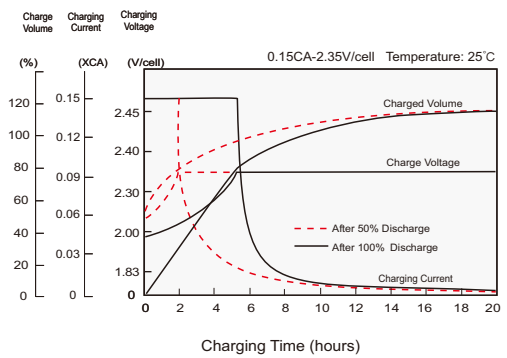
### STANDARDS

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

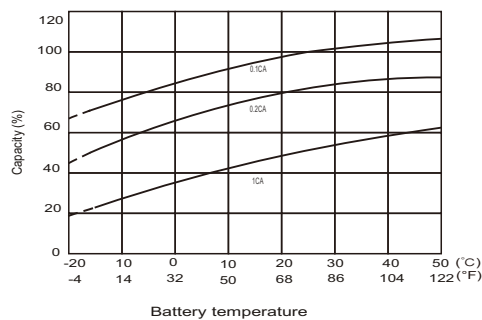
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

