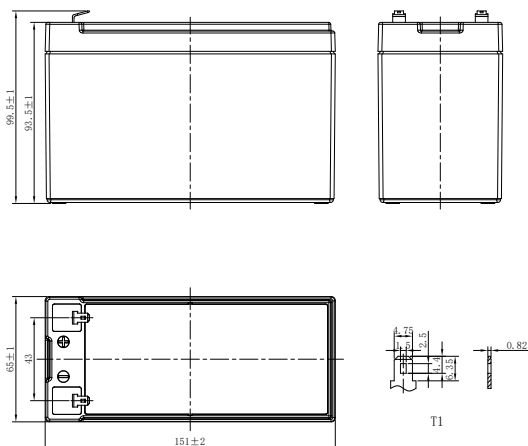


LHR SERIES-HIGH RATE

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)	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	29.8	20.8	16.2	13.1	9.54	6.90	5.53	3.96	3.11	2.24	1.79	1.53	1.03	0.832
1.80V/cell	32.1	22.1	17.0	13.6	9.83	7.08	5.67	4.05	3.17	2.28	1.82	1.55	1.04	0.843
1.75V/cell	33.9	23.0	17.6	14.0	10.1	7.24	5.78	4.12	3.22	2.32	1.84	1.57	1.05	0.851
1.70V/cell	35.4	23.9	18.2	14.4	10.3	7.40	5.89	4.19	3.27	2.35	1.87	1.59	1.06	0.860
1.67V/cell	36.7	24.6	18.6	14.7	10.5	7.52	5.98	4.25	3.31	2.37	1.88	1.60	1.07	0.866
1.60V/cell	38.9	25.6	19.3	15.1	10.8	7.70	6.11	4.34	3.37	2.42	1.92	1.63	1.09	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	57.4	40.1	32.0	25.7	18.6	13.4	10.8	7.74	6.09	4.41	3.52	3.01	2.04	1.65
1.80V/cell	61.1	42.2	33.4	26.6	19.1	13.7	11.0	7.88	6.19	4.47	3.57	3.05	2.06	1.67
1.75V/cell	63.6	43.6	34.3	27.2	19.5	13.9	11.2	8.00	6.28	4.53	3.62	3.08	2.08	1.69
1.70V/cell	66.0	45.0	35.3	27.9	19.9	14.2	11.3	8.12	6.36	4.60	3.66	3.12	2.10	1.71
1.67V/cell	67.7	45.9	36.0	28.3	20.2	14.4	11.5	8.20	6.42	4.64	3.69	3.14	2.12	1.72
1.60V/cell	70.5	47.5	37.0	29.0	20.7	14.7	11.7	8.34	6.52	4.71	3.75	3.18	2.15	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

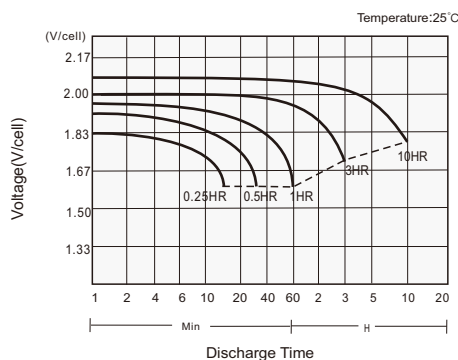
GENERAL FEATURES

- 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

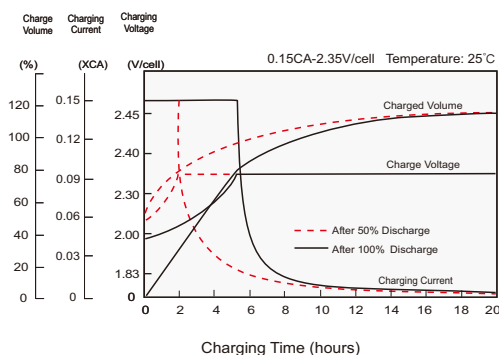
STANDARDS

- 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

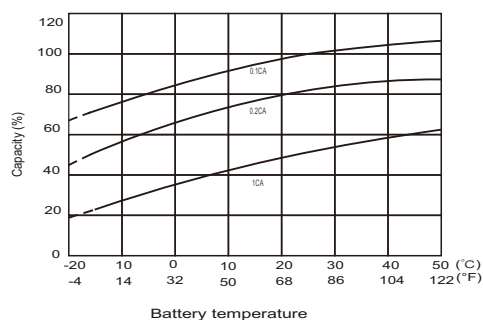
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

