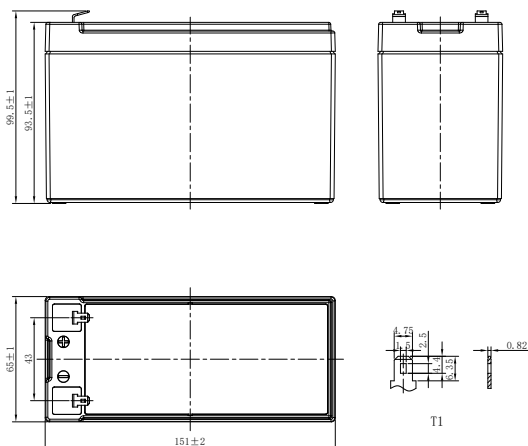


LHR SERIES-HIGH RATE

LHR1234W(A) (12V34W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	34W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	7.49Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.35kg (5.18lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	209.72A	
Internal Resistance (25°C)	Approx 21 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	27.5	18.9	14.4	11.7	8.60	6.21	5.03	3.88	2.99	2.11	1.64	1.37	0.900	0.739
1.80V/cell	29.6	20.0	15.2	12.1	8.86	6.38	5.15	3.96	3.05	2.15	1.67	1.39	0.920	0.749
1.75V/cell	31.2	20.8	15.7	12.5	9.09	6.52	5.27	4.03	3.11	2.18	1.69	1.40	0.930	0.757
1.70V/cell	32.7	21.6	16.2	12.8	9.33	6.67	5.36	4.10	3.15	2.21	1.71	1.42	0.940	0.764
1.67V/cell	33.8	22.3	16.6	13.1	9.49	6.77	5.44	4.15	3.19	2.23	1.73	1.43	0.940	0.770
1.60V/cell	35.8	23.2	17.1	13.5	9.75	6.94	5.57	4.24	3.25	2.28	1.76	1.46	0.960	0.780
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	55.7	38.4	30.3	24.1	17.8	12.9	10.5	7.57	5.86	4.15	3.24	2.70	1.79	1.47
1.80V/cell	59.3	40.4	31.6	24.9	18.2	13.2	10.7	7.71	5.96	4.21	3.28	2.73	1.82	1.49
1.75V/cell	61.8	41.7	32.4	25.4	18.6	13.4	10.9	7.82	6.05	4.27	3.32	2.76	1.84	1.50
1.70V/cell	64.1	43.1	33.3	26.0	19.0	13.7	11.0	7.94	6.12	4.32	3.36	2.80	1.85	1.52
1.67V/cell	65.7	44.1	34.0	26.5	19.3	13.9	11.2	8.02	6.18	4.36	3.39	2.82	1.87	1.53
1.60V/cell	68.4	45.4	34.9	27.2	19.7	14.1	11.4	8.16	6.28	4.43	3.44	2.85	1.89	1.54

LHR SERIES-HIGH RATE

LHR1234W(A) (12V34W)



APPLICATIONS

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

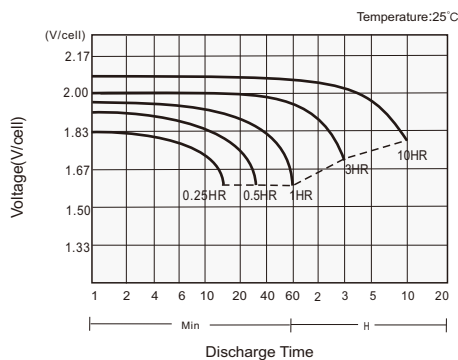
GENERAL FEATURES

- 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

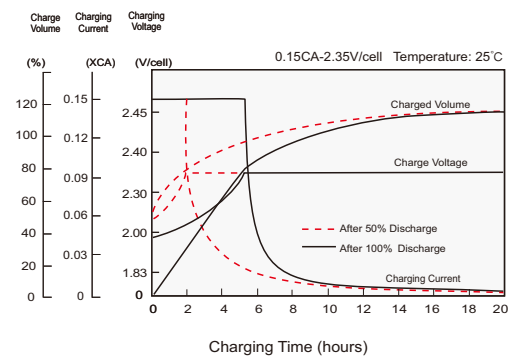
STANDARDS

- 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

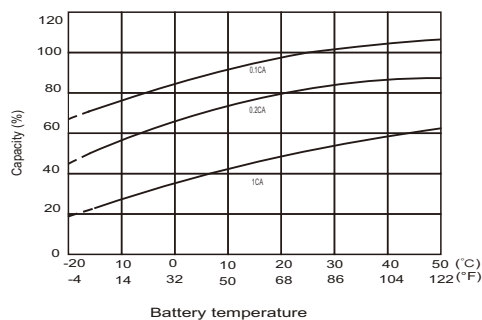
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

