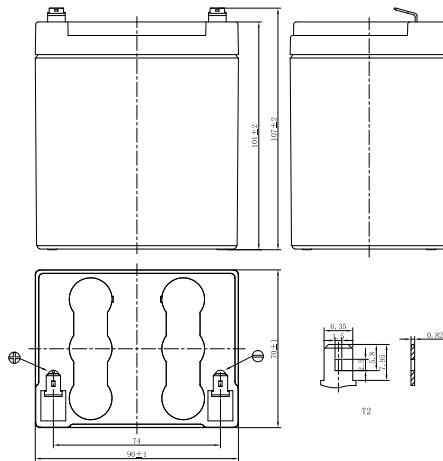


# LHR SERIES-HIGH RATE

## LHR1224W (12V24W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W <sub>15</sub> , 1.67V/cell	24W/cell
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	5.3Ah
Dimension	Length	90mm (3.54inches)
	Width	70mm (2.76inches)
	Container Height	101mm (3.98inches)
	Total Height	107mm (4.21inches)
Approx Weight	1.88kg (4.14lbs)	
Terminal	T2/T1	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	148.4A	
Internal Resistance (25°C)	Approx 25 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	17.7	11.8	9.69	7.73	5.43	3.87	3.01	2.25	1.80	1.35	1.07	0.890	0.607	0.497
1.80V/cell	20.7	13.9	11.3	8.90	6.14	4.33	3.33	2.46	1.96	1.46	1.15	0.959	0.650	0.530
1.75V/cell	22.6	14.9	11.9	9.34	6.42	4.51	3.46	2.55	2.02	1.50	1.18	0.980	0.662	0.538
1.70V/cell	24.4	15.9	12.6	9.83	6.70	4.68	3.58	2.63	2.09	1.54	1.21	1.00	0.673	0.547
1.67V/cell	25.5	16.5	13.0	10.1	6.87	4.78	3.66	2.68	2.12	1.57	1.23	1.02	0.680	0.552
1.60V/cell	28.1	17.9	13.9	10.7	7.25	5.03	3.84	2.80	2.21	1.62	1.27	1.05	0.696	0.563
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	33.8	22.6	18.6	14.9	10.5	7.51	5.86	4.39	3.52	2.65	2.10	1.75	1.20	0.983
1.80V/cell	38.9	26.3	21.4	17.0	11.8	8.33	6.44	4.78	3.81	2.85	2.25	1.88	1.28	1.05
1.75V/cell	41.9	27.9	22.4	17.7	12.2	8.61	6.63	4.91	3.91	2.91	2.30	1.92	1.30	1.06
1.70V/cell	44.8	29.4	23.5	18.4	12.6	8.86	6.82	5.04	4.01	2.99	2.35	1.96	1.32	1.08
1.67V/cell	46.4	30.3	24.0	18.8	12.9	9.02	6.93	5.12	4.07	3.02	2.38	1.98	1.33	1.09
1.60V/cell	50.5	32.4	25.4	19.7	13.4	9.38	7.20	5.30	4.20	3.12	2.45	2.03	1.36	1.11

# LHR SERIES-HIGH RATE

## LHR1224W (12V24W)



### APPLICATIONS

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

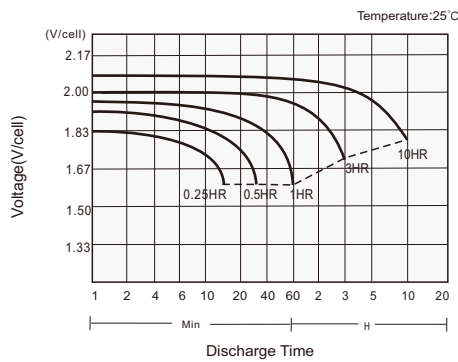
### GENERAL FEATURES

- 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

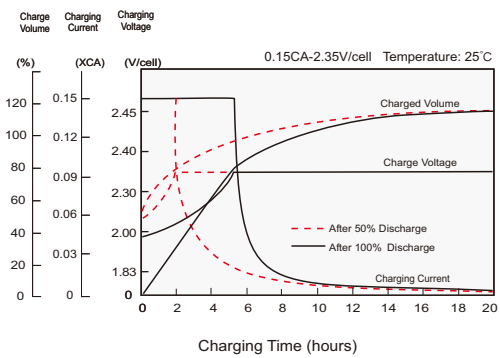
### STANDARDS

- 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

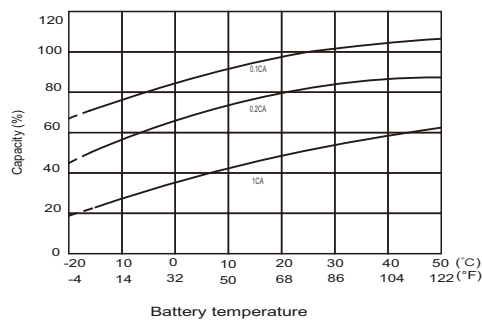
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

