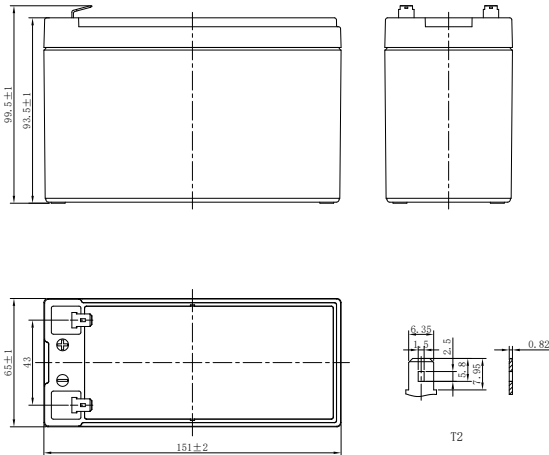


LHR SERIES-HIGH RATE

LHR1230W (12V30W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	30W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	7.0Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.38kg (5.25lbs)	
Terminal	T2/T1	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	196A	
Internal Resistance (25°C)	Approx 22 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	24.6	16.8	13.9	10.5	7.45	5.45	4.46	3.27	2.57	1.85	1.48	1.26	0.850	0.693
1.80V/cell	26.4	17.9	14.6	11.0	7.68	5.59	4.57	3.34	2.62	1.88	1.50	1.27	0.860	0.702
1.75V/cell	27.8	18.6	15.1	11.3	7.88	5.71	4.66	3.40	2.66	1.91	1.52	1.29	0.870	0.709
1.70V/cell	29.2	19.3	15.6	11.6	8.08	5.84	4.75	3.46	2.70	1.94	1.54	1.31	0.880	0.717
1.67V/cell	30.2	19.9	16.0	11.8	8.22	5.94	4.82	3.50	2.73	1.96	1.55	1.32	0.890	0.722
1.60V/cell	32.0	20.7	16.6	12.2	8.45	6.08	4.93	3.57	2.79	2.00	1.58	1.34	0.900	0.731

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	46.5	32.1	26.7	20.3	14.4	10.6	8.67	6.38	5.03	3.64	2.91	2.48	1.68	1.38
1.80V/cell	49.5	33.7	27.9	21.0	14.8	10.8	8.86	6.49	5.11	3.69	2.95	2.51	1.70	1.40
1.75V/cell	51.6	34.9	28.6	21.4	15.1	11.0	9.01	6.59	5.19	3.74	2.98	2.54	1.72	1.41
1.70V/cell	53.5	36.0	29.4	21.9	15.4	11.2	9.14	6.69	5.25	3.79	3.02	2.57	1.74	1.42
1.67V/cell	54.9	36.8	30.0	22.3	15.7	11.4	9.27	6.76	5.30	3.82	3.04	2.59	1.75	1.43
1.60V/cell	57.1	37.9	30.8	22.9	16.0	11.6	9.43	6.88	5.38	3.88	3.09	2.63	1.77	1.45

LHR SERIES-HIGH RATE

LHR1230W (12V30W)



APPLICATIONS

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

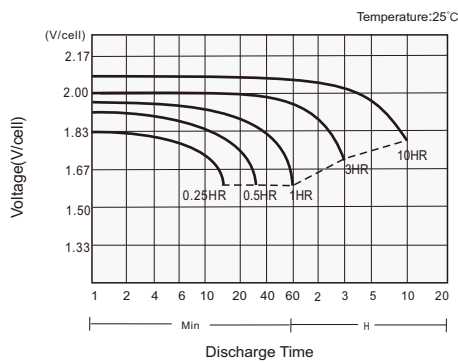
GENERAL FEATURES

- 10 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

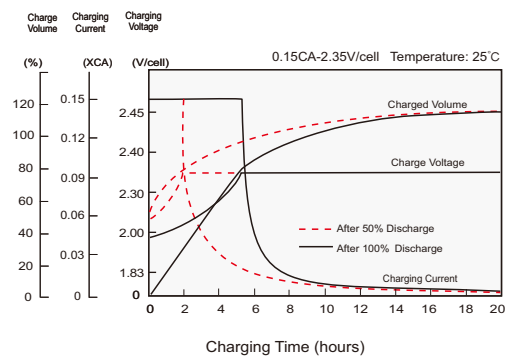
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE, UL Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

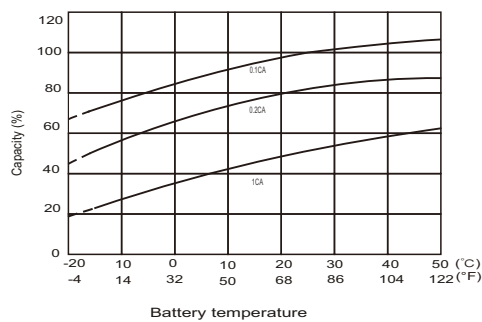
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

