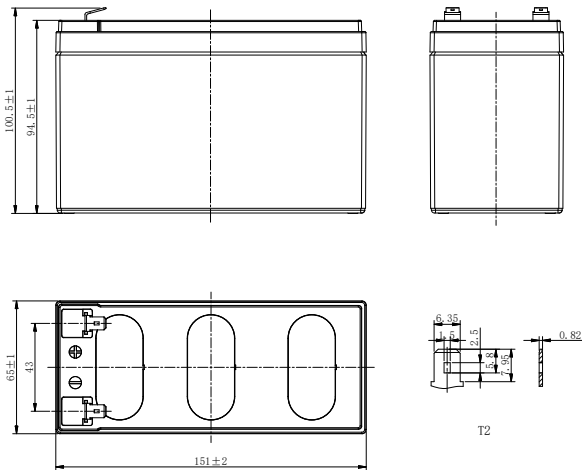


LHR SERIES-HIGH RATE

LHR1242W (12V42W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W ₁₅ , 1.67V/cell	42W/cell
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	8.43Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	94.5mm (3.72inches)
	Total Height	100.5mm (3.96inches)
Approx Weight	2.80kg (6.17lbs)	
Terminal	T2/T1	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	236A	
Internal Resistance (25°C)	Approx 17 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	38.7	23.6	19.2	15.1	10.6	7.58	5.80	3.99	3.13	2.25	1.77	1.51	1.02	0.832
1.80V/cell	41.6	24.9	20.2	15.7	11.0	7.78	5.94	4.07	3.18	2.28	1.80	1.53	1.03	0.843
1.75V/cell	43.9	25.8	20.8	16.1	11.2	7.95	6.06	4.14	3.24	2.32	1.82	1.55	1.04	0.851
1.70V/cell	45.9	26.7	21.4	16.6	11.5	8.13	6.17	4.22	3.29	2.36	1.85	1.57	1.05	0.860
1.67V/cell	47.7	27.5	22.0	16.9	11.7	8.26	6.27	4.27	3.32	2.38	1.86	1.58	1.06	0.866
1.60V/cell	50.4	28.4	22.7	17.4	12.1	8.45	6.41	4.36	3.39	2.42	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	73.2	45.7	37.4	29.4	20.7	14.7	11.3	7.78	6.12	4.42	3.49	2.98	2.02	1.65
1.80V/cell	78.0	48.1	39.0	30.4	21.2	15.1	11.5	7.92	6.22	4.48	3.53	3.02	2.04	1.67
1.75V/cell	81.3	49.7	40.0	31.1	21.7	15.3	11.7	8.04	6.31	4.54	3.58	3.05	2.06	1.69
1.70V/cell	84.3	51.3	41.1	31.8	22.1	15.6	11.9	8.16	6.39	4.60	3.62	3.09	2.08	1.71
1.67V/cell	86.5	52.5	42.0	32.4	22.5	15.8	12.0	8.25	6.45	4.64	3.65	3.11	2.10	1.72
1.60V/cell	90.0	54.0	43.1	33.2	23.0	16.1	12.3	8.39	6.55	4.71	3.71	3.15	2.13	1.74

LHR SERIES-HIGH RATE

LHR1242W (12V42W)



APPLICATIONS

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

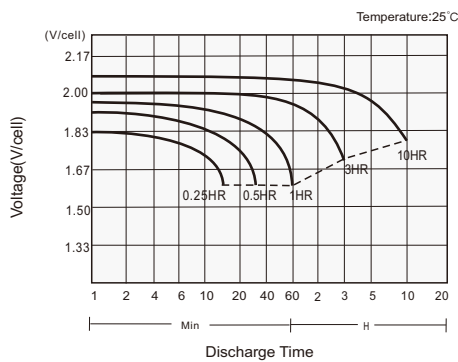
GENERAL FEATURES

- 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

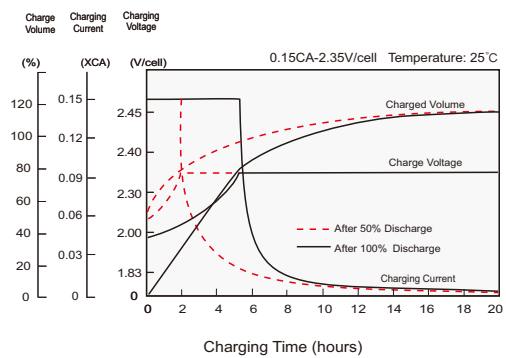
STANDARDS

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

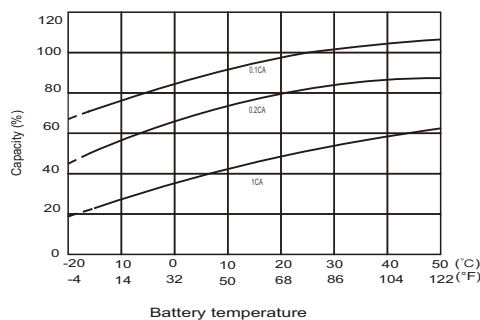
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

