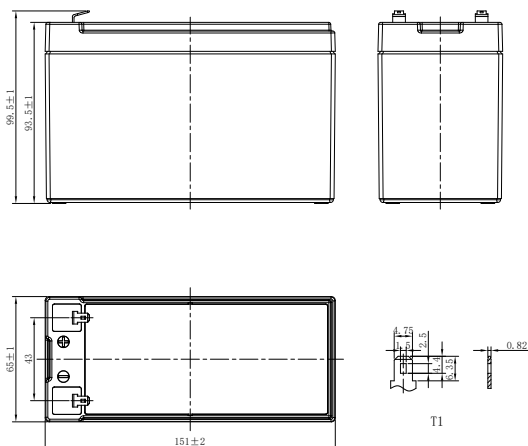


LHR SERIES-HIGH RATE

LHR1228W(A) (12V28W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	28W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	7.02Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight		2.24kg (4.94lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		196.6A
Internal Resistance (25°C)		Approx 23 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	22.8	15.5	11.5	9.40	6.92	5.06	4.43	3.25	2.57	1.85	1.48	1.26	0.850	0.693
1.80V/cell	24.6	16.4	12.1	9.78	7.14	5.20	4.54	3.31	2.62	1.88	1.50	1.27	0.860	0.702
1.75V/cell	25.9	17.0	12.5	10.1	7.32	5.31	4.63	3.37	2.66	1.91	1.52	1.29	0.870	0.709
1.70V/cell	27.1	17.7	12.9	10.4	7.51	5.43	4.72	3.43	2.70	1.94	1.54	1.31	0.880	0.717
1.67V/cell	28.0	18.2	13.2	10.6	7.64	5.52	4.79	3.48	2.73	1.96	1.55	1.32	0.890	0.722
1.60V/cell	29.7	19.0	13.6	10.9	7.85	6.65	4.90	3.55	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	46.2	31.5	24.9	19.4	14.3	10.5	8.62	6.34	5.03	3.64	2.91	2.48	1.68	1.38
1.80V/cell	49.2	33.1	26.0	20.0	14.7	10.7	8.80	6.45	5.11	3.69	2.95	2.51	1.70	1.40
1.75V/cell	51.3	34.2	26.7	20.5	15.0	10.9	8.95	6.55	5.19	3.74	2.98	2.54	1.72	1.41
1.70V/cell	53.2	35.3	27.4	21.0	15.3	11.1	9.08	6.64	5.25	3.79	3.02	2.57	1.74	1.42
1.67V/cell	54.5	36.1	28.0	21.3	15.5	11.3	9.20	6.71	5.30	3.82	3.04	2.59	1.75	1.43
1.60V/cell	56.8	37.2	28.8	21.9	15.9	11.5	9.37	6.83	5.38	3.88	3.09	2.63	1.77	1.45

LHR SERIES-HIGH RATE

LHR1228W(A) (12V28W)



APPLICATIONS

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

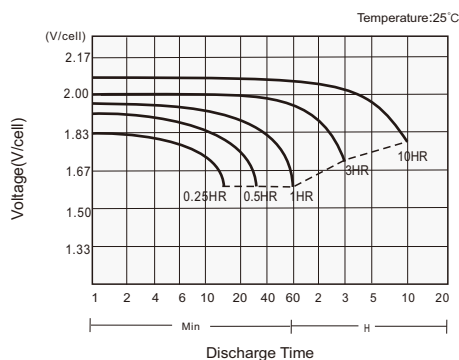
GENERAL FEATURES

- 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

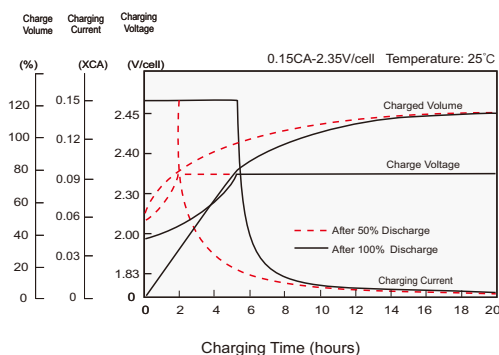
STANDARDS

- 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

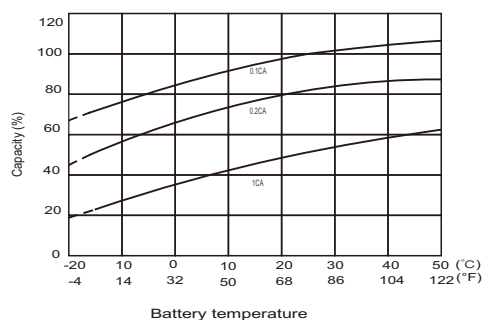
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

