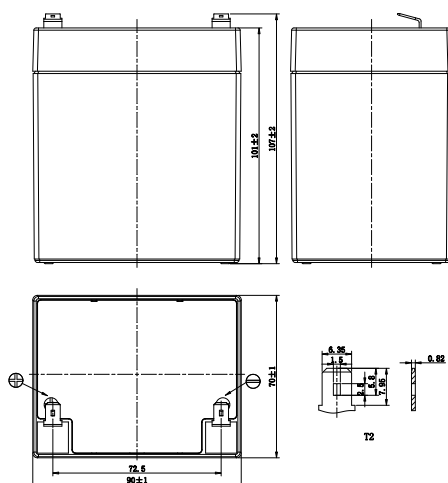


LHR SERIES-HIGH RATE

LHR1217W(A) (12V17W)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	17W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	4.21Ah
Dimension	Length	90mm(3.54inches)
	Width	70mm(2.76inches)
	Container Height	101mm(3.98inches)
	Total Height	107mm(4.21inches)
Approx Weight		1.45kg(3.20lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		117.9A
Internal Resistance (25°C)		Approx 41 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	14.0	9.59	7.47	6.07	4.47	3.27	2.68	1.96	1.54	1.11	0.886	0.754	0.509	0.416
1.80V/cell	15.1	10.2	7.83	6.31	4.61	3.36	2.74	2.00	1.57	1.13	0.899	0.765	0.516	0.421
1.75V/cell	15.9	10.6	8.09	6.49	4.73	3.43	2.80	2.04	1.60	1.15	0.911	0.775	0.522	0.426
1.70V/cell	16.6	11.0	8.37	6.68	4.85	3.51	2.85	2.07	1.62	1.16	0.923	0.785	0.527	0.430
1.67V/cell	17.2	11.3	8.57	6.82	4.93	3.56	2.89	2.10	1.64	1.18	0.932	0.792	0.531	0.433
1.60V/cell	18.2	11.8	8.87	7.02	5.07	3.65	2.96	2.14	1.67	1.20	0.949	0.805	0.539	0.439
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	26.5	18.3	14.3	11.7	8.64	6.34	5.20	3.83	3.02	2.18	1.75	1.49	1.01	0.826
1.80V/cell	28.2	19.2	14.9	12.1	8.87	6.49	5.32	3.90	3.06	2.22	1.77	1.51	1.02	0.837
1.75V/cell	29.4	19.9	15.3	12.4	9.06	6.60	5.40	3.96	3.11	2.25	1.79	1.53	1.03	0.844
1.70V/cell	30.5	20.5	15.7	12.7	9.24	6.72	5.49	4.01	3.15	2.27	1.81	1.54	1.04	0.853
1.67V/cell	31.3	21.0	17.0	12.9	9.39	6.81	5.56	4.06	3.18	2.29	1.82	1.55	1.05	0.858
1.60V/cell	32.5	21.6	16.5	13.2	9.59	6.94	5.66	4.13	3.23	2.33	1.85	1.58	1.06	0.868

LHR SERIES-HIGH RATE

LHR1217W(A) (12V17W)



APPLICATIONS

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

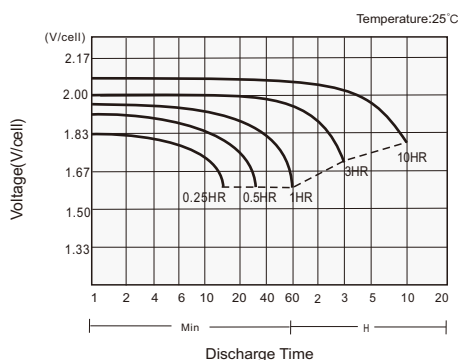
GENERAL FEATURES

- 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

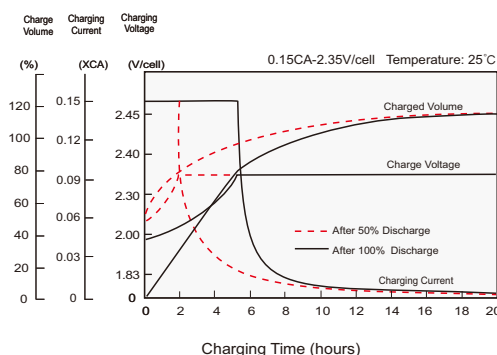
STANDARDS

- 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

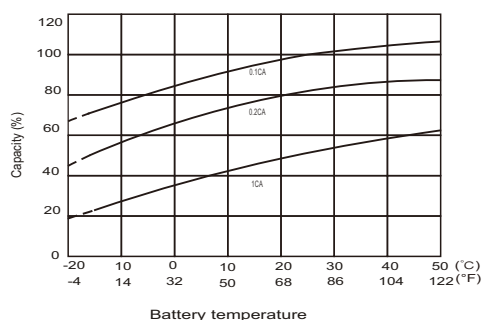
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

