



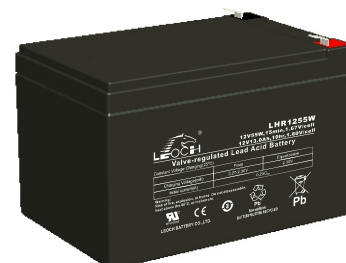
LHR Series-High Rate

LHR1255W(12V55W)

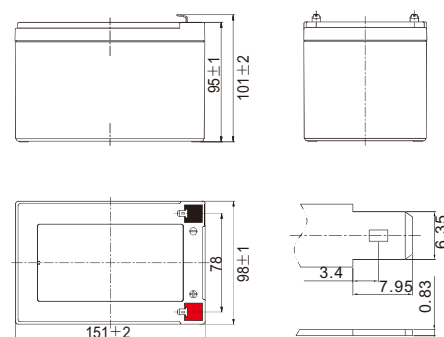


Specifications

Rated Voltage	12V		
Nominal Rate ($W_{15}, 1.67V/cell$)	55W		
Nominal Capacity($C_{10}, 1.80V/cell$)	13.0Ah		
Dimension	Length	151±2mm (5.94 inches)	
	Width	98±1mm (3.86 inches)	
	Container Height	95±1mm (3.74 inches)	
	Total Height	101±2mm (3.98 inches)	
Approx. Weight	3.78 Kg (8.82 lbs)		
Terminal	T2		
Container Material	ABS: UL 94 HB or V-0		
Rated Capacity (25°C)	13.0 Ah	(10hr, 1.30A, 1.80V/cell)	
	12.8 Ah	(8hr, 1.60 A, 1.80V/cell)	
	12.0 Ah	(5hr, 2.39A, 1.75V/cell)	
	10.7 Ah	(3hr, 3.57A, 1.75V/cell)	
	8.99 Ah	(1hr, 8.99A, 1.67V/cell)	
Max. Discharge Current	210A		
Internal Resistance (25°C)	Approx. 14mΩ		
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)	3.5A		
Charge voltage(25°C)	Charge voltage	Temp. Coefficient	
	Float	2.25 ~2.30V/cell	-3mV/cell/°C
	Equalization	2.30~2.40V/cell	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	106%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	≤3%/month @ 25°C		



Layout



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	38.9	26.0	21.0	16.5	12.2	9.18	7.40	5.53	4.43	3.22	2.60	2.17	1.49	1.22
1.80V/cell	45.3	30.6	24.4	19.0	13.8	10.3	8.19	6.05	4.82	3.48	2.81	2.34	1.60	1.30
1.75V/cell	49.4	32.9	25.8	19.9	14.4	10.7	8.49	6.26	4.97	3.57	2.88	2.39	1.62	1.32
1.70V/cell	53.5	35.1	27.3	20.9	15.1	11.1	8.80	6.47	5.12	3.68	2.95	2.45	1.65	1.34
1.67V/cell	56.0	36.4	28.1	21.5	15.5	11.3	8.99	6.58	5.21	3.73	2.99	2.48	1.67	1.35
1.60V/cell	61.7	39.5	30.1	22.9	16.3	11.9	9.41	6.88	5.43	3.87	3.09	2.55	1.71	1.38

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	74.1	49.8	41.4	31.7	23.6	17.8	14.4	10.8	8.65	6.30	5.12	4.27	2.95	2.41
1.80V/cell	85.3	58.0	47.5	36.2	26.5	19.8	15.8	11.7	9.37	6.79	5.50	4.59	3.15	2.57
1.75V/cell	91.9	61.5	50.6	37.6	27.4	20.4	16.3	12.1	9.60	6.94	5.61	4.68	3.20	2.61
1.70V/cell	98.2	64.9	52.9	39.2	28.4	21.0	16.8	12.4	9.86	7.11	5.73	4.77	3.25	2.64
1.67V/cell	101.6	66.8	55.0	40.1	28.9	21.4	17.0	12.6	10.0	7.20	5.80	4.82	3.28	2.67
1.60V/cell	110.7	71.4	57.3	42.1	30.2	22.2	17.7	13.0	10.3	7.42	5.96	4.95	3.34	2.71



LHR Series-High Rate

LHR1255W(12V55W)



Applications

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

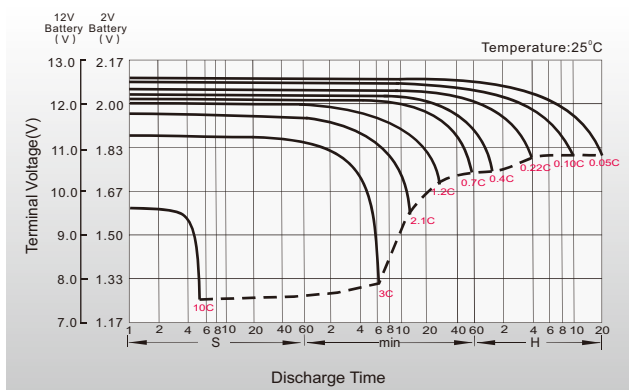
General Features

- High quality AGM separator: extend cycle life and prevent micro short circuit
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- Unique vent valve design: reduce water losing and prevent air/spark going inside

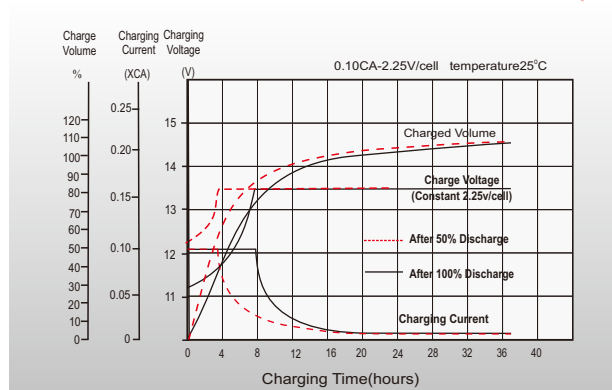
Standards

- Compliance with IEC 60896 standards
- Classified as "General Purpose" according to Eurobat
- CE, UL, IEC Certified
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

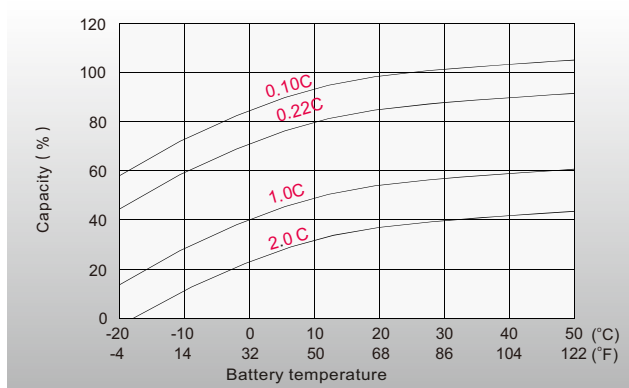
Discharge Characteristics



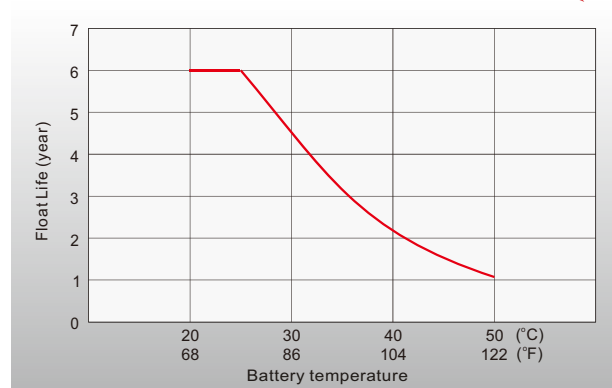
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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