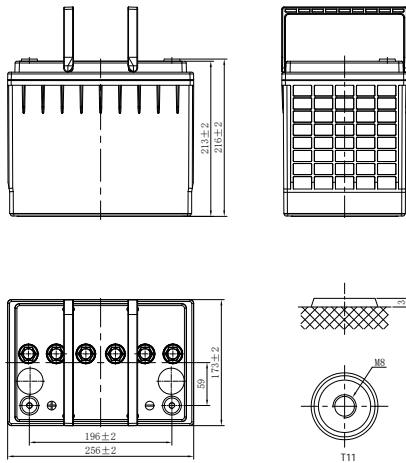


LHR SERIES-HIGH RATE

LHR12300W (12V300W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	300W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	75Ah
Dimension	Length	256mm (10.1inches)
	Width	173mm (6.81inches)
	Container Height	213mm (8.39inches)
	Total Height	216mm (8.50inches)
Approx Weight	23.7kg (52.2lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1875A	
Internal Resistance (25°C)	Approx 5 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	
	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	177.6	145.4	133.5	102.3	73.5	51.6	39.4	27.1	21.7	18.2	14.4	12.6	8.35	7.22
1.80V/cell	195.4	158.2	139.8	113.9	78.6	54.5	41.6	28.7	22.9	19.0	15.2	12.9	8.72	7.50
1.75V/cell	213.1	171.0	150.0	115.3	80.3	55.9	42.7	29.4	23.5	19.5	15.5	13.1	8.90	7.63
1.70V/cell	230.9	183.8	154.8	117.6	81.8	56.7	43.3	29.8	23.8	19.7	15.6	13.2	8.99	7.70
1.67V/cell	252.2	195.8	159.6	119.9	82.0	57.1	43.6	30.0	24.0	19.8	15.7	13.2	9.02	7.74
1.60V/cell	257.5	200.1	162.1	123.2	83.3	57.7	44.1	30.3	24.3	20.0	15.8	13.3	9.09	7.80

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	333.9	273.3	251.0	192.3	138.2	105.4	80.5	55.4	44.3	37.2	29.5	25.7	17.1	14.8
1.80V/cell	367.3	297.4	262.8	214.1	147.8	111.5	85.1	58.6	46.9	38.9	31.1	26.5	17.8	15.3
1.75V/cell	400.7	321.5	281.9	216.8	151.0	114.3	87.2	60.0	48.0	39.8	31.6	26.8	18.2	15.6
1.70V/cell	434.1	345.6	291.0	221.1	153.8	115.9	88.5	60.9	48.7	40.4	31.9	27.0	18.3	15.7
1.67V/cell	474.1	368.1	300.0	225.4	154.2	116.7	89.1	61.3	49.0	40.6	32.1	27.1	18.4	15.8
1.60V/cell	484.2	376.2	304.7	231.6	156.6	118.0	90.1	62.0	49.6	40.9	32.3	27.2	18.6	15.9

LHR SERIES-HIGH RATE

LHR12300W (12V300W)



APPLICATIONS

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

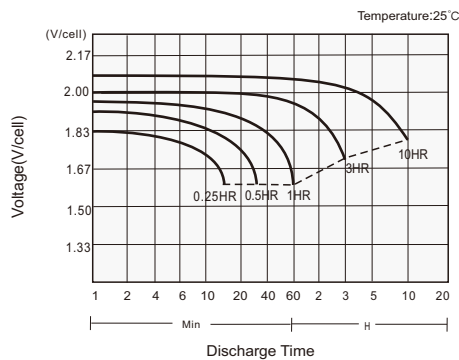
GENERAL FEATURES

- 12 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

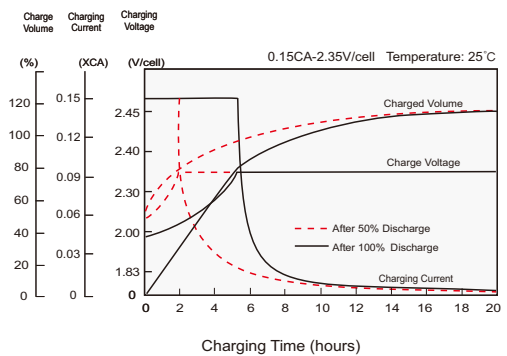
STANDARDS

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

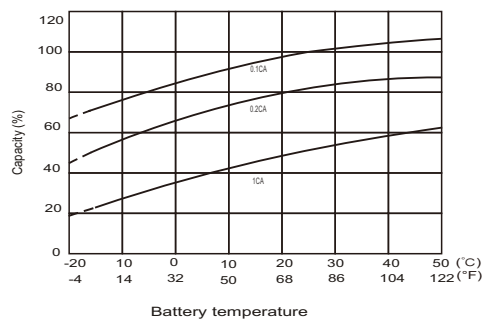
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

