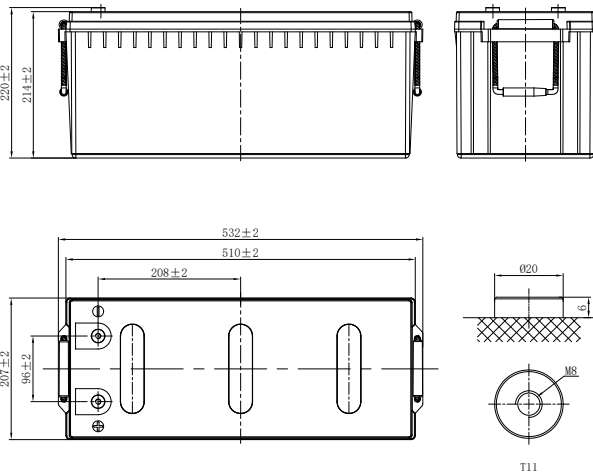


# LHR SERIES-HIGH RATE

## LHR12700W(A) (12V700W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	700W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	180Ah
Dimension	Length	532mm (20.9inches)
	Width	207mm (8.15inches)
	Container Height	214mm (8.43inches)
	Total Height	220mm (8.66inches)
Approx Weight	57.5kg (126.8lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3600.0A	
Internal Resistance (25°C)	Approx 2.7 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	-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	418.7	334.3	289.8	227.9	157.9	122.2	99.1	72.7	59.5	44.3	35.0	29.6	20.5	17.5
1.80V/cell	476.2	379.5	328.5	257.7	178.1	129.8	102.4	74.9	63.0	45.8	36.3	30.8	20.9	18.0
1.75V/cell	508.4	404.5	349.5	273.5	188.3	137.6	106.6	78.0	65.4	46.8	37.5	31.7	21.1	18.1
1.70V/cell	545.1	432.5	372.3	290.8	200.2	144.4	111.3	81.3	67.0	47.8	38.4	32.4	21.4	18.2
1.67V/cell	572.3	452.7	388.7	303.0	207.9	148.4	112.5	83.4	68.6	48.8	38.9	32.8	21.7	18.5
1.60V/cell	592.5	468.2	400.7	310.8	213.0	152.0	114.6	86.2	69.9	50.1	39.8	33.5	21.8	18.6

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	782.0	628.9	548.8	433.6	301.8	235.0	191.6	141.0	115.7	86.6	68.7	58.4	40.7	34.8
1.80V/cell	874.8	703.5	613.9	485.0	337.6	247.9	197.0	144.5	121.9	89.0	71.0	60.4	41.4	35.7
1.75V/cell	917.7	738.0	644.0	508.8	354.2	261.3	204.2	149.8	126.1	90.7	73.1	61.9	41.7	35.9
1.70V/cell	967.6	778.1	679.0	536.4	373.5	272.3	212.0	155.3	128.6	92.4	74.6	63.2	42.3	36.1
1.67V/cell	997.5	802.2	700.0	553.0	385.0	278.2	213.1	158.6	131.1	93.9	75.3	63.8	42.6	36.6
1.60V/cell	1011.5	813.4	709.8	560.7	390.4	282.4	215.5	162.8	132.8	95.8	76.7	64.8	42.8	36.7

# LHR SERIES-HIGH RATE

## LHR12700W(A) (12V700W)



### APPLICATIONS

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

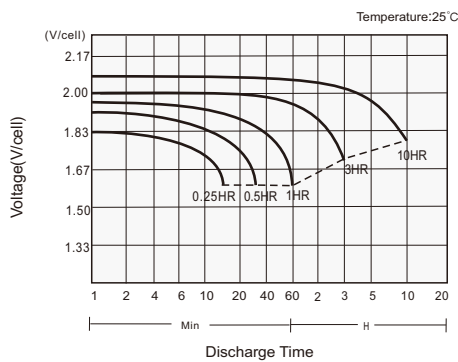
### GENERAL FEATURES

- 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

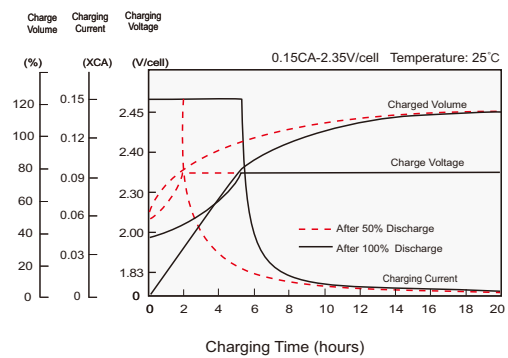
### STANDARDS

- 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

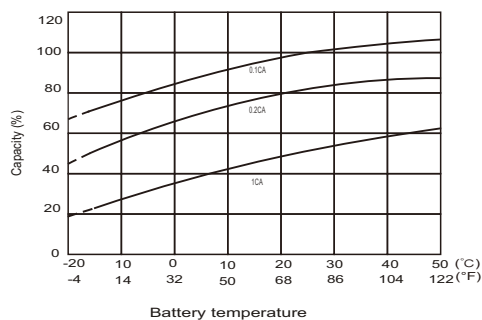
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

