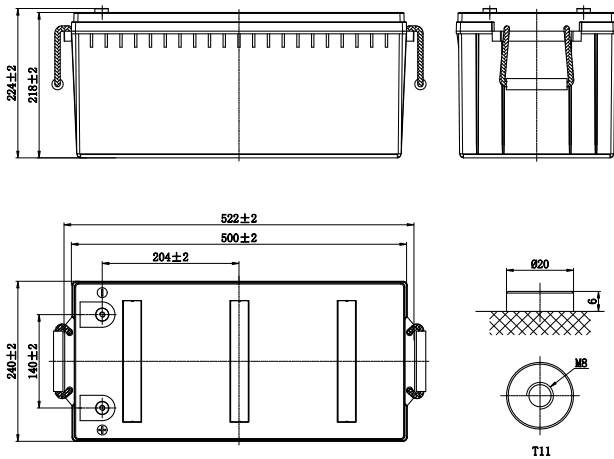


# LHR SERIES-HIGH RATE

## LHR12800W (12V800W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W <sub>15</sub> , 1.67V/cell	800W/cell
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	210Ah
Dimension	Length	522mm (20.6inches)
	Width	240mm (9.45inches)
	Container Height	218mm (8.58inches)
	Total Height	224mm (8.82inches)
Approx Weight	67kg (147.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4200.0A	
Internal Resistance (25°C)	Approx 2.6 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	478.6	382.1	331.3	260.5	180.5	142.6	115.6	84.9	69.4	51.7	40.9	34.6	23.9	20.4
1.80V/cell	544.2	433.7	375.4	294.5	203.6	151.5	119.5	87.4	73.5	53.4	42.4	35.9	24.4	21.0
1.75V/cell	591.2	470.3	406.4	318.0	218.9	160.6	124.4	91.0	76.3	54.5	43.8	37.0	24.6	21.1
1.70V/cell	632.0	501.5	431.6	337.1	232.1	168.5	129.8	94.8	78.1	55.7	44.8	37.8	25.0	21.2
1.67V/cell	654.0	517.3	444.2	346.3	237.6	173.1	131.2	97.3	80.0	57.0	45.4	38.3	25.3	21.6
1.60V/cell	677.2	535.0	458.0	355.2	243.4	177.4	133.6	100.6	81.6	58.4	46.5	39.1	25.4	21.7

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	893.8	718.8	627.2	495.5	345.0	274.2	223.6	164.5	135.0	101.0	80.2	68.1	47.4	40.6
1.80V/cell	999.8	804.0	701.6	554.3	385.9	289.3	229.8	168.6	142.2	103.9	82.8	70.5	48.3	41.7
1.75V/cell	1067.0	858.1	748.8	591.6	411.8	304.9	238.2	174.8	147.1	105.8	85.3	72.3	48.6	41.8
1.70V/cell	1121.8	902.1	787.2	621.9	433.0	317.7	247.3	181.2	150.0	107.7	87.0	73.7	49.3	42.1
1.67V/cell	1140.0	916.8	800.0	632.0	440.0	324.6	248.6	185.0	152.9	109.6	87.8	74.4	49.8	42.7
1.60V/cell	1156.0	929.6	811.2	640.8	446.2	329.5	251.4	189.9	155.0	111.8	89.5	75.5	49.9	42.8

# LHR SERIES-HIGH RATE

## LHR12800W (12V800W)



### APPLICATIONS

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

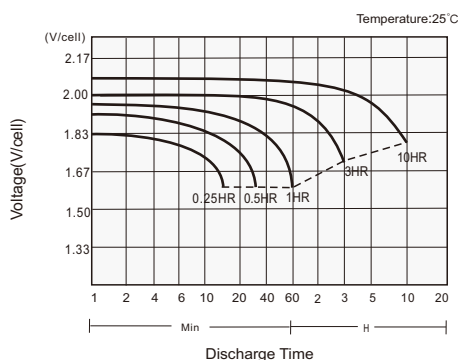
### GENERAL FEATURES

- 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

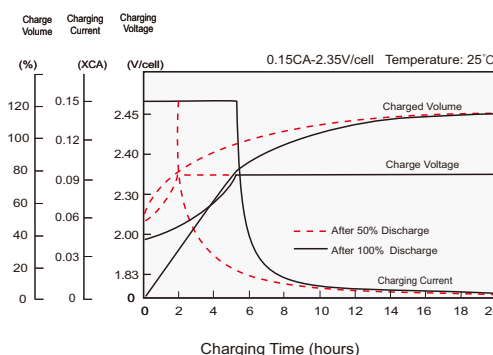
### STANDARDS

- 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

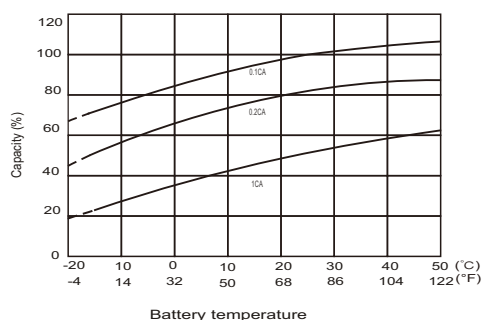
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

