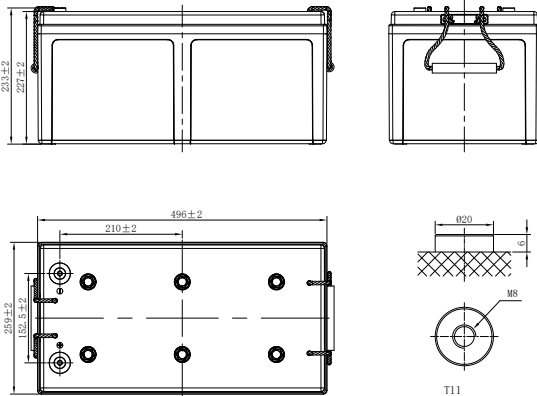


# LHR SERIES-HIGH RATE

## LHR12845W (12V845W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W <sub>15</sub> 1.67V/cell	845W/cell
Nominal Capacity (25°C)	C <sub>10</sub> 1.80V/cell	225Ah
Dimension	Length	496mm (19.5inches)
	Width	259mm (10.2inches)
	Container Height	227mm (8.94inches)
	Total Height	233mm (9.17inches)
Approx Weight	74.5kg (164.2lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4500A	
Internal Resistance (25°C)	Approx 2.5 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)	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	505.5	403.6	349.9	275.2	190.7	152.8	123.8	90.9	74.4	55.4	43.8	37.0	25.6	21.9
1.80V/cell	574.9	458.1	396.5	311.1	215.0	162.3	128.0	93.7	78.7	57.2	45.4	38.5	26.1	22.5
1.75V/cell	624.4	496.8	429.2	335.8	231.2	172.0	133.3	97.5	81.7	58.4	46.9	39.6	26.4	22.6
1.70V/cell	667.5	529.7	455.9	356.1	245.1	180.5	139.1	101.6	83.7	59.7	48.0	40.5	26.8	22.7
1.67V/cell	690.8	546.4	469.2	365.8	251.0	185.5	140.6	104.3	85.7	61.0	48.7	41.0	27.1	23.1
1.60V/cell	715.3	565.1	483.8	375.2	257.1	190.0	143.2	107.8	87.4	62.6	49.8	41.8	27.2	23.2

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	944.0	759.2	662.5	523.4	364.4	293.8	239.5	176.3	144.7	108.2	85.9	73.0	50.8	43.5
1.80V/cell	1056.0	849.3	741.1	585.4	407.6	309.9	246.2	180.6	152.4	111.3	88.8	75.5	51.7	44.7
1.75V/cell	1127.1	906.4	790.9	624.8	435.0	326.6	255.2	187.3	157.6	113.4	91.4	77.4	52.1	44.8
1.70V/cell	1184.9	952.9	831.5	656.9	457.3	340.4	264.9	194.1	160.7	115.4	93.2	79.0	52.8	45.1
1.67V/cell	1204.1	968.4	845.0	667.6	464.8	347.8	266.3	198.2	163.9	117.4	94.1	79.7	53.3	45.7
1.60V/cell	1221.0	981.9	856.8	676.9	471.3	353.0	269.3	203.5	166.0	119.8	95.8	80.9	53.5	45.9

# LHR SERIES-HIGH RATE

## LHR12845W (12V845W)



### APPLICATIONS

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

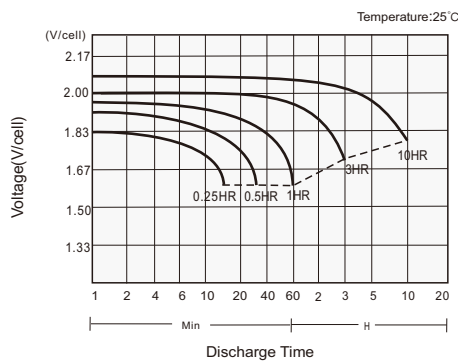
### GENERAL FEATURES

- 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

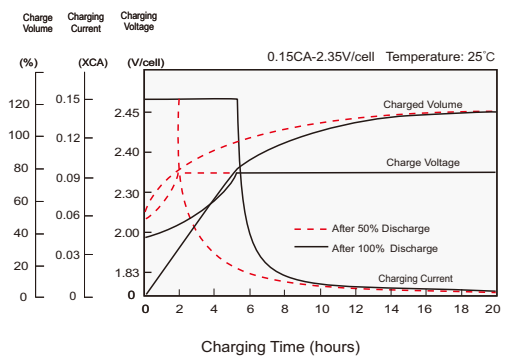
### STANDARDS

- 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

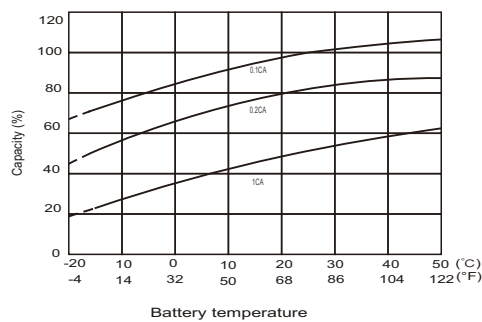
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

