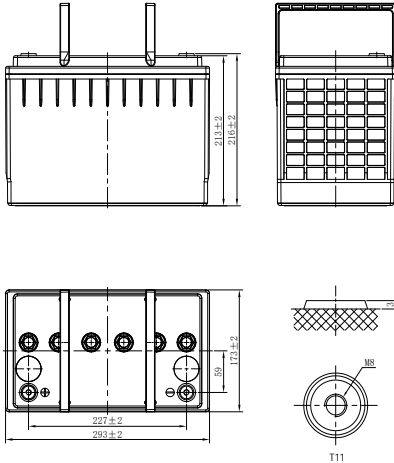


# LHR SERIES-HIGH RATE

## LHR12330W(A) (12V330W)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	330W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	80Ah
Dimension	Length	293mm (11.5inches)
	Width	173mm (6.81inches)
	Container Height	213mm (8.39inches)
	Total Height	216mm (8.50inches)
Approx Weight	26.7kg (58.9lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2000.0A	
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	195.4	159.9	146.9	112.5	80.9	55.0	42.0	28.9	23.1	19.4	15.4	13.4	8.91	7.71
1.80V/cell	214.9	174.0	153.8	125.3	86.5	58.2	44.4	30.6	24.4	20.3	16.2	13.8	9.30	8.00
1.75V/cell	234.4	188.1	165.0	126.8	88.4	59.6	45.5	31.3	25.1	20.8	16.5	14.0	9.49	8.14
1.70V/cell	254.0	202.2	170.3	129.4	90.0	60.5	46.2	31.8	25.4	21.1	16.6	14.1	9.59	8.21
1.67V/cell	277.4	215.4	175.6	131.9	90.2	60.9	46.5	32.0	25.6	21.2	16.7	14.1	9.62	8.26
1.60V/cell	283.3	220.1	178.3	135.5	91.6	61.6	47.0	32.4	25.9	21.3	16.8	14.2	9.69	8.32

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	367.3	300.6	276.1	211.5	152.1	112.4	85.8	59.1	47.3	39.7	31.4	27.4	18.2	15.8
1.80V/cell	404.0	327.1	289.1	235.6	162.6	118.9	90.8	62.5	50.0	41.5	33.2	28.2	19.0	16.4
1.75V/cell	440.7	353.7	310.1	238.4	166.1	121.9	93.1	64.0	51.2	42.5	33.7	28.6	19.4	16.6
1.70V/cell	477.5	380.2	320.1	243.3	169.2	123.7	94.4	65.0	52.0	43.0	34.0	28.8	19.6	16.8
1.67V/cell	521.5	404.9	335.0	251.5	169.6	124.5	95.0	65.4	52.3	43.3	34.2	28.9	19.7	16.9
1.60V/cell	532.6	413.9	335.3	254.8	172.3	125.9	96.1	66.1	52.9	43.6	34.4	29.0	19.8	17.0

# LHR SERIES-HIGH RATE

## LHR12330W(A) (12V330W)



### APPLICATIONS

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

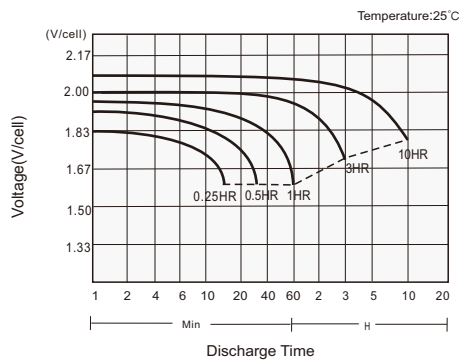
### GENERAL FEATURES

- 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

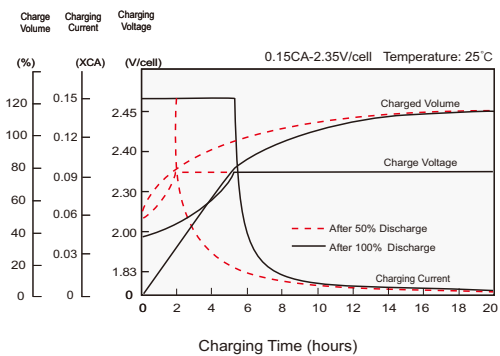
### STANDARDS

- 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

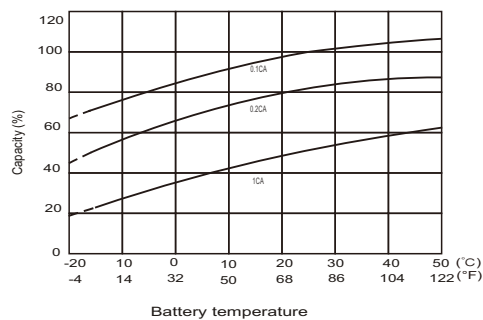
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

