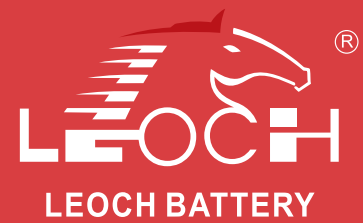




LHR Series-High Rate

LHR12700W(A)(12V700W)

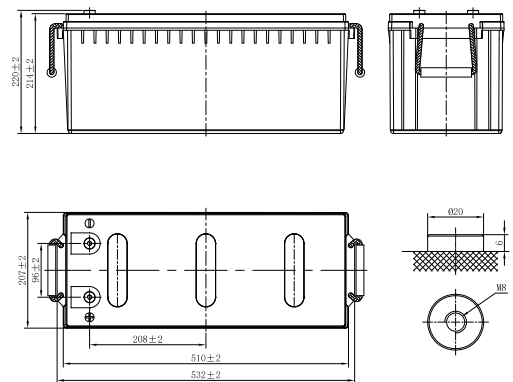


Specifications

Rated Voltage	12V		
Nominal Rate($W_{15}, 1.67V/cell$)	700W/cell		
Nominal Capacity($C_{10}, 1.80V/cell$)	180Ah		
Dimension	Length	532±2mm (20.9 inches)	
	Width	207±2mm (8.14 inches)	
	Container Height	214±2mm (8.42 inches)	
	Total Height	220±2mm (8.66 inches)	
Approx Weight	59.5kg (131.2 lbs)		
Terminal	M8		
Container Material	ABS: UL 94 HB or V-0 optional		
Rated Capacity(25°C)	180.0 Ah	C10(18.0A, 1.80V/cell)	
	167.2 Ah	C8(20.9A, 1.80V/cell)	
	158.5 Ah	C5(31.7A, 1.75V/cell)	
	140.4 Ah	C3(46.8A, 1.75V/cell)	
	114.6 Ah	C1(114.6A, 1.60V/cell)	
Max. Discharge Current	1800A (5s)		
Internal Resistance(25°C)	Approx 3.0mΩ		
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)	45.0A		
Charge voltage(25°C)	Float	2.25 ~ 2.30V/cell	-3mV/cell/°C
	Equalization	2.30~2.40V/cell	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	106%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	≤3%/month @ 25°C		



Layout

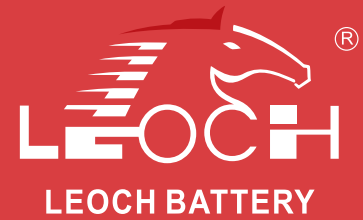


Constant Current Discharge (Amperes) at 25 °C (77°F)

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	517.8	412.0	356.0	278.5	191.8	137.6	106.6	78.0	65.4	46.8	37.5	31.7	21.1	18.1
1.70V/cell	553.0	438.8	377.7	295.0	203.1	145.4	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	148.6	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	152.5	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	934.7	751.7	655.9	518.2	360.7	261.3	204.2	149.8	126.1	90.7	73.1	61.9	41.7	35.9
1.70V/cell	981.5	789.4	688.8	544.2	378.8	274.1	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	278.7	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	283.3	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 & Testing Laboratories
- Emergency Power Supply
- Banks & Financial Markets
- Industrial Process Control Facilities
- Data & Network Operation Centers

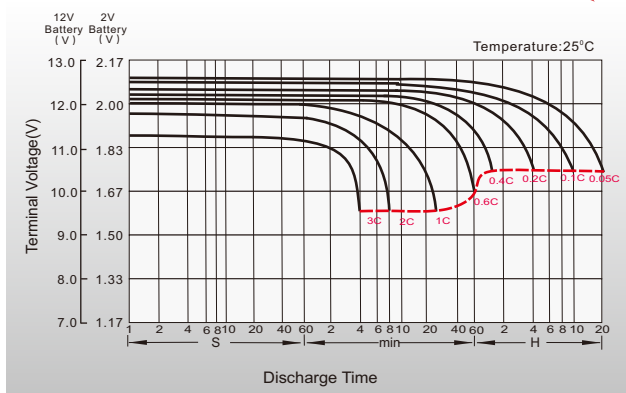
General Features

- High quality AGM separator: extend cycle life and prevent micro short circuit
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- Unique vent valve design: reduce water losing and prevent air/spark going inside

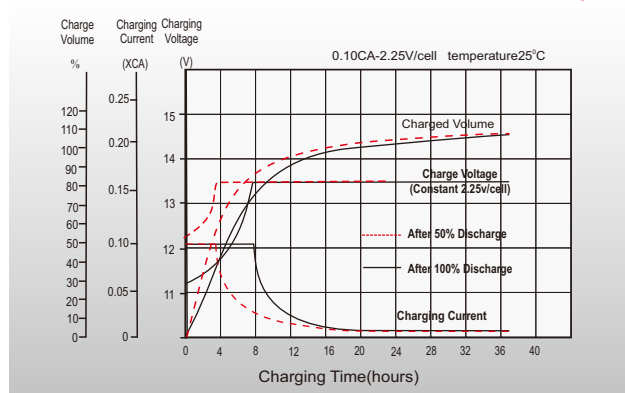
Standards

- Compliance with IEC 60896 and YD/T 3427 standards
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

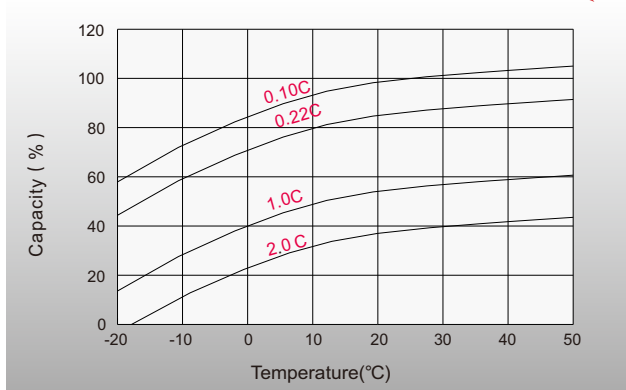
Discharge Characteristics



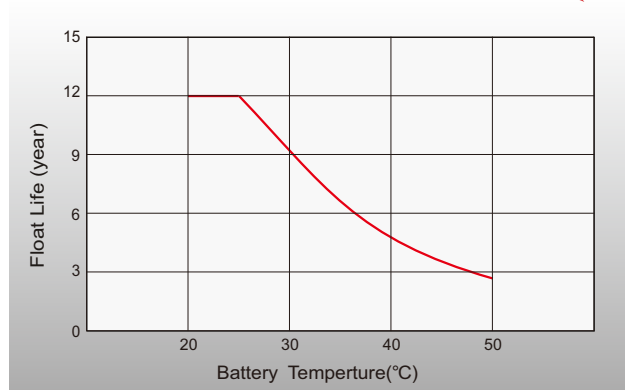
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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