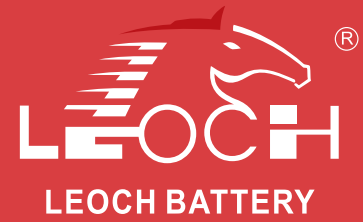




LHR Series-High Rate

LHR12650W(12V650W)

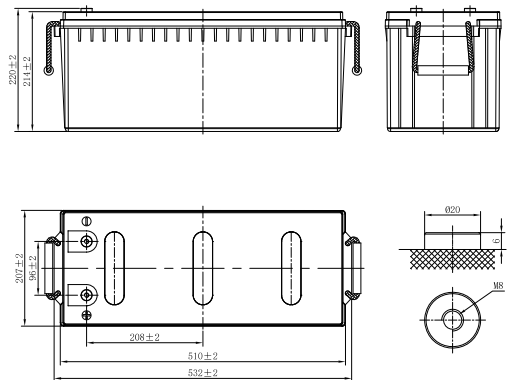


Specifications

Rated Voltage	12V		
Nominal Rate($W_{15}, 1.67V/cell$)	650W/cell		
Nominal Capacity($C_{10}, 1.80V/cell$)	170Ah		
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	57.0kg (125.7 lbs)		
Terminal	M8		
Container Material	ABS: UL 94 HB or V-0 optional		
Rated Capacity(25°C)	170.0 Ah	C10(17.0A, 1.80V/cell)	
	157.6 Ah	C8(19.7A, 1.80V/cell)	
	149.5 Ah	C5(29.9A, 1.75V/cell)	
	132.6 Ah	C3(44.2A, 1.75V/cell)	
	108.2 Ah	C1(108.2A, 1.60V/cell)	
Max. Discharge Current	1700A (5s)		
Internal Resistance(25°C)	Approx 3.2mΩ		
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)	42.5A		
Charge voltage(25°C)	Float	Charge voltage	Temp. Coefficient
	Equalization	2.25 ~ 2.30V/cell	-3mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	2.30~2.40V/cell	-4mV/cell/°C
	25°C (77°F)		
	0°C (32°F)		
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	388.8	310.4	269.1	211.7	146.7	115.5	93.6	68.7	56.2	41.8	33.1	28.0	19.3	16.5
1.80V/cell	442.2	352.4	305.0	239.3	165.4	122.6	96.7	70.8	59.5	43.2	34.3	29.1	19.7	17.0
1.75V/cell	480.8	382.6	330.5	258.6	178.1	130.0	100.7	73.7	61.8	44.2	35.5	29.9	19.9	17.1
1.70V/cell	513.5	407.4	350.7	273.9	188.6	137.3	105.1	76.8	63.2	45.1	36.3	30.6	20.2	17.2
1.67V/cell	531.4	420.3	360.9	281.4	193.1	140.4	106.2	78.8	64.8	46.1	36.8	31.0	20.5	17.5
1.60V/cell	550.2	434.7	372.1	288.6	197.8	144.0	108.2	81.4	66.0	47.3	37.6	31.6	20.6	17.5

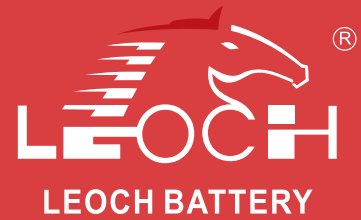
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	726.2	584.0	509.6	402.6	280.3	222.0	181.0	133.2	109.3	81.8	64.9	55.1	38.4	32.9
1.80V/cell	812.3	653.3	570.1	450.3	313.5	234.2	186.0	136.5	115.2	84.1	67.1	57.1	39.1	33.8
1.75V/cell	867.9	698.0	609.1	481.1	335.0	246.8	192.8	141.5	119.1	85.7	69.1	58.5	39.3	33.9
1.70V/cell	911.4	733.0	639.6	505.3	351.8	258.9	200.2	146.7	121.4	87.2	70.4	59.7	39.9	34.1
1.67V/cell	926.3	744.9	650.0	513.5	357.5	263.2	201.2	149.8	123.8	88.7	71.1	60.2	40.3	34.5
1.60V/cell	939.2	755.3	659.1	520.7	362.5	267.6	203.5	153.7	125.4	90.5	72.4	61.2	40.4	34.7



LHR Series-High Rate

LHR12650W(12V650W)



Applications

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

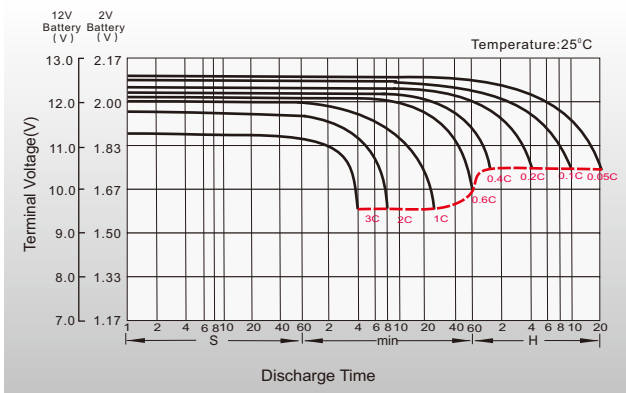
General Features

- 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

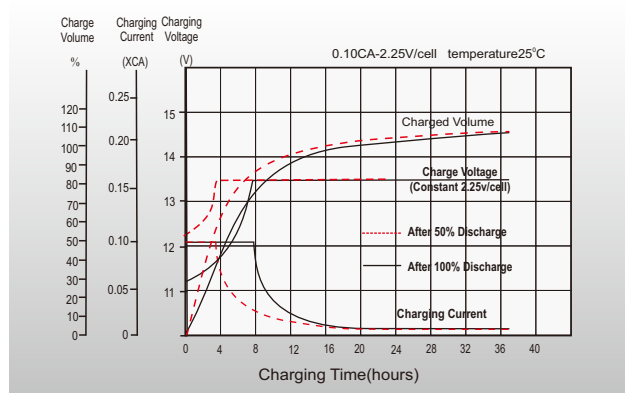
Standards

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

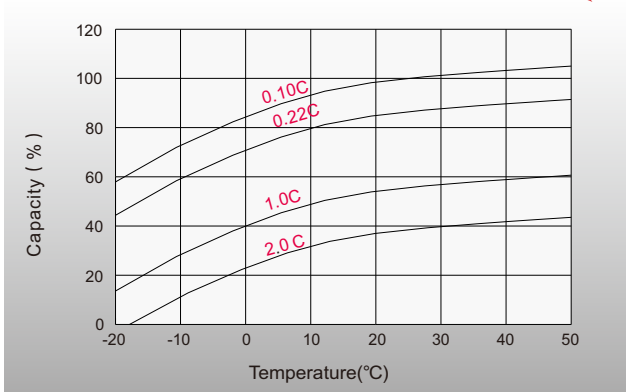
Discharge Characteristics



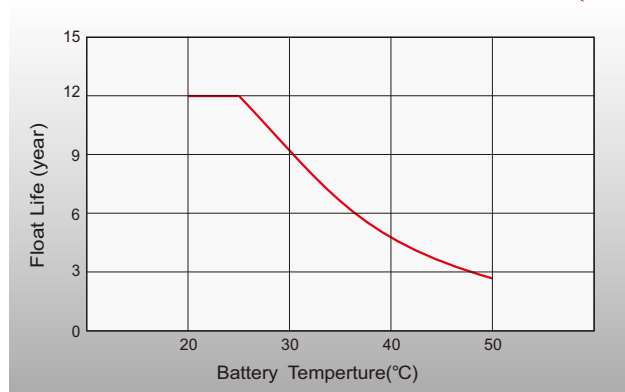
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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