



LHR Series-High Rate

LHR12605W(A)(12V605W)

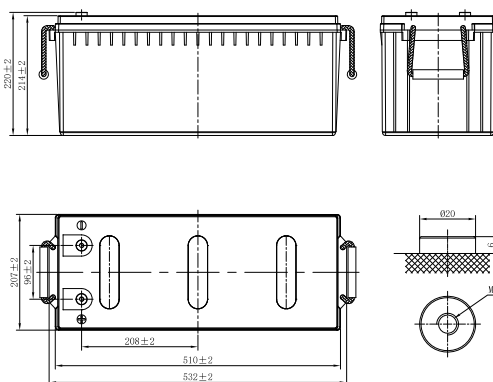


Specifications

Rated Voltage	12V	
Nominal Rate($W_{15}, 1.67V/\text{cell}$)	605W/cell	
Nominal Capacity($C_{10}, 1.80V/\text{cell}$)	160Ah	
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	55.0kg (121.3 lbs)	
Terminal	M8	
Container Material	ABS: UL 94 HB or V-0 optional	
Rated Capacity(25°C)	160.0 Ah	C10(16.0A, 1.80V/cell)
	148.8 Ah	C8(18.6A, 1.80V/cell)
	141.0 Ah	C5(28.2A, 1.75V/cell)
	124.8 Ah	C3(41.6A, 1.75V/cell)
	101.8 Ah	C1(101.8A, 1.60V/cell)
Max. Discharge Current	1600A (5s)	
Internal Resistance(25°C)	Approx 3.3mΩ	
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)	40.0A	
Charge voltage(25°C)	Float	Charge voltage Temp. Coefficient 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	361.9	288.9	250.5	197.0	136.5	108.7	88.1	64.7	52.9	39.4	31.1	26.3	18.2	15.6
1.80V/cell	411.6	328.0	283.9	222.7	153.9	115.4	91.0	66.6	56.0	40.7	32.3	27.4	18.6	16.0
1.75V/cell	447.5	356.1	307.7	240.7	165.7	122.3	94.8	69.4	58.1	41.6	33.4	28.2	18.8	16.1
1.70V/cell	477.9	379.2	326.4	255.0	175.5	129.2	98.9	72.2	59.5	42.5	34.2	28.8	19.1	16.2
1.67V/cell	494.6	391.2	335.9	261.9	179.7	132.1	100.0	74.2	60.9	43.4	34.6	29.2	19.3	16.4
1.60V/cell	512.1	404.6	346.4	268.6	184.1	135.6	101.8	76.6	62.1	44.5	35.4	29.8	19.4	16.5

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	675.9	543.6	474.3	374.7	260.9	208.9	170.3	125.4	102.9	76.9	61.1	51.9	36.1	30.9
1.80V/cell	756.1	608.1	530.6	419.2	291.8	220.4	175.1	128.5	108.4	79.1	63.1	53.7	36.8	31.8
1.75V/cell	807.8	649.7	566.9	447.8	311.8	232.3	181.5	133.2	112.1	80.6	65.0	55.1	37.0	31.9
1.70V/cell	848.3	682.2	595.3	470.3	327.4	243.7	188.4	138.0	114.3	82.1	66.3	56.2	37.6	32.1
1.67V/cell	862.1	693.3	605.0	478.0	332.8	247.7	189.4	141.0	116.5	83.5	66.9	56.7	37.9	32.5
1.60V/cell	874.2	703.0	613.5	484.6	337.4	251.8	191.5	144.7	118.1	85.2	68.2	57.6	38.0	32.6



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Applications

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

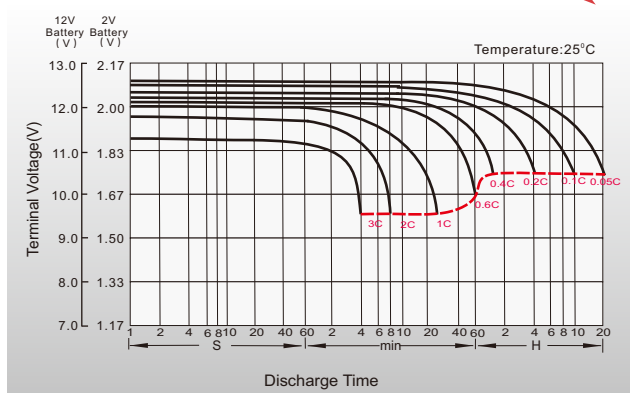
General Features

- 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

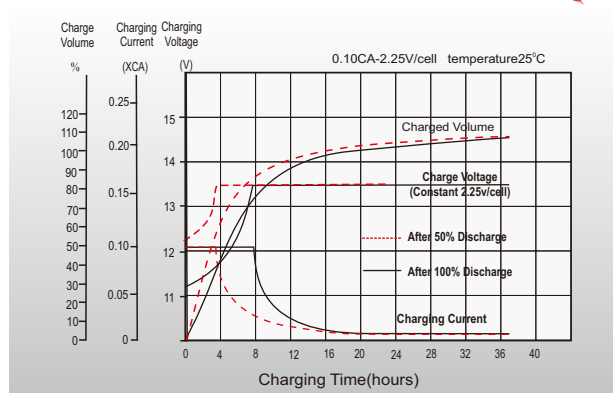
Standards

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

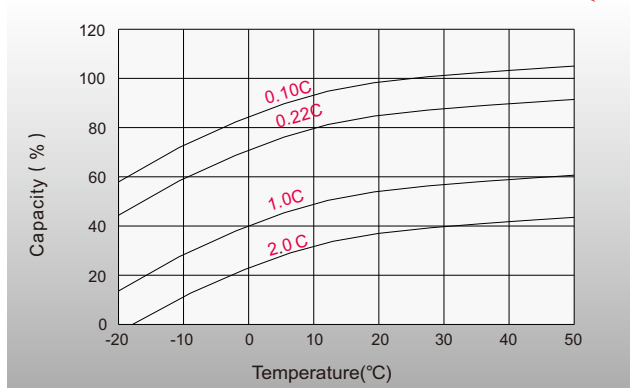
Discharge Characteristics



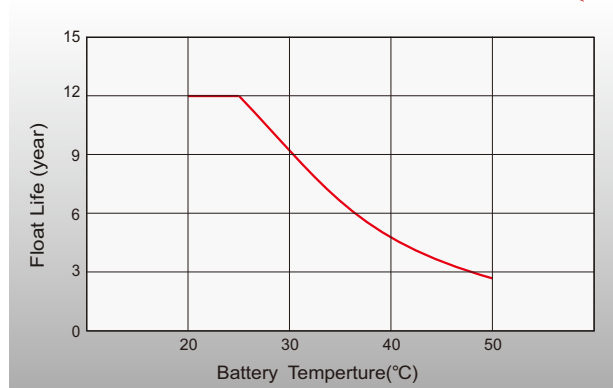
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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