

LSE Series

The LSE range of VRLA batteries offers outstanding performance including a 15+ year design life and a cycle life in excess of 1200 cycles to 80% DOD. Built to the highest standards and compliant with the latest IEC 60896-21/22 standard this range also offers 100% capacity out-of-the-box and is capable of handling deep discharges for complete peace of mind. The use of flexible connectors and the ability to be installed both horizontally and vertically allows for multiple installation possibilities. This robust design uses the latest AGM technology to create a range that is suitable for many applications including both fixed and mobile telecoms, UPS, utilities and solar.

Application

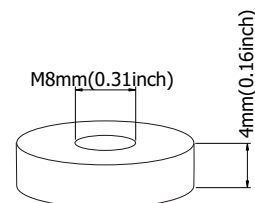
Cable Television	Control Equipment
Communication Equipment	Medical Equipment
Security System	Emergency Power System
UPS	Power Plant

General Features

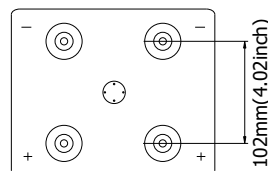
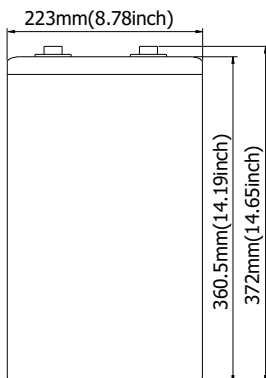
- Extra long life service design.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

Construction

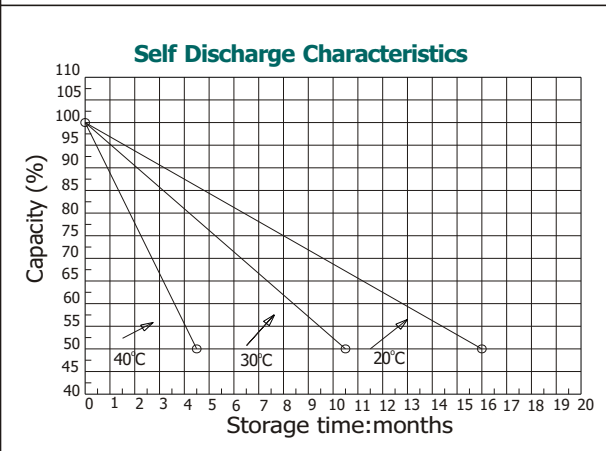
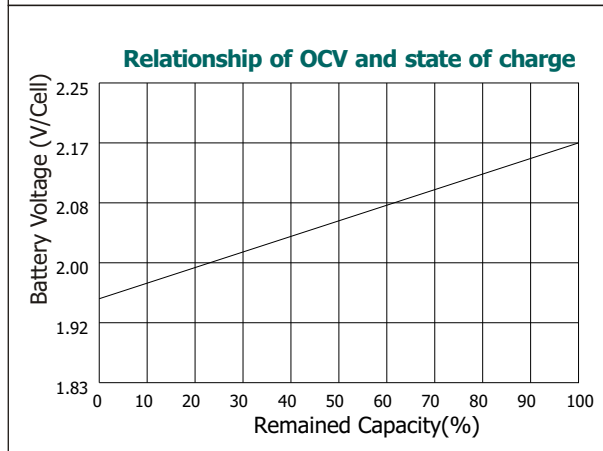
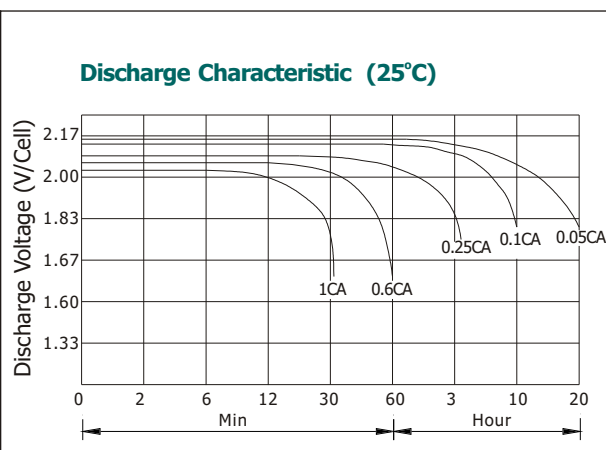
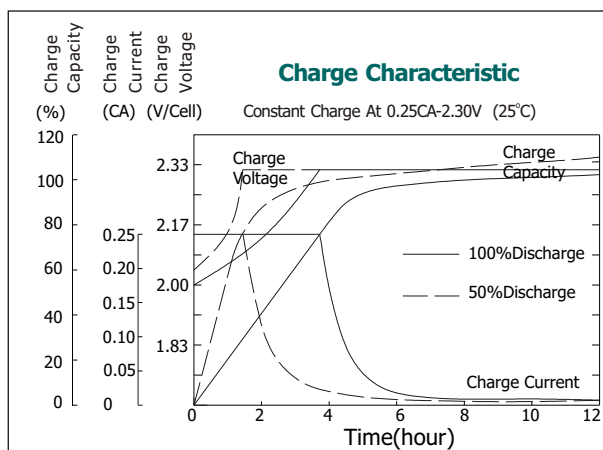
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Copper
Container	ABS	Separator	Fiber glass
Cover	ABS	Electrolyte	Sulfuric acid



Terminal Dimensions



Battery Model	LSE2-600			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(31A,1.75V)	10HR(60A,1.75V)	5HR(108A,1.75V)	1HR(388.2A,1.75V)
	619.8AH	600AH	540AH	388.2AH
Dimensions	Length	Width	Height	Total Height
	223mm(8.78inch)	184.5mm(7.26inch)	360.5mm(14.19inch)	372mm(14.65inch)
Approx. Weight	37Kg (81.5 lbs)			
Internal Resistance	Full charged at 25°C :0.28 mΩ			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	2.3V-2.35V(-5mV/ °C), max. Current: 150A		2.25-2.27V(-3.3mV/ °C)	



Constant current discharge ratings -amperes at 25°C

Time End Voltage	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	999.9	837.4	620.1	392.0	231.1	169.5	115.0	99.2	79.1	65.7	29.6
1.65V	923.8	780.7	594.0	371.8	225.7	165.4	112.1	97.9	78.1	65.0	29.5
1.70V	863.5	732.1	546.5	355.2	217.4	160.6	111.2	96.6	76.6	64.0	29.3
1.75V	822.8	693.0	507.9	338.6	209.8	155.6	108.1	95.0	75.7	63.1	29.0
1.80V	791.5	653.4	475.2	317.2	200.8	150.9	105.6	92.7	74.3	61.7	28.5
1.83V	736.2	613.5	452.4	297.0	191.7	146.0	103.1	91.0	72.9	60.4	27.9
1.85V	700.8	579.4	423.7	286.3	181.2	143.2	102.0	89.7	72.1	60.0	27.6
1.88V	651.5	528.3	398.0	274.2	177.2	140.2	101.0	88.4	71.3	59.5	27.3
1.90V	602.6	489.9	363.5	254.2	169.9	134.2	98.2	86.4	69.4	58.0	27.0
1.94V	542.0	436.4	321.8	225.7	153.5	123.4	91.0	80.2	64.9	54.6	26.1

Constant power discharge ratings-watts at 25°C

Time End Voltage	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	1699.8	1423.6	1133.6	807.8	521.2	386.1	255.0	217.8	170.2	139.0	62.7
1.65V	1616.7	1366.2	1072.2	746.5	478.2	362.3	246.1	210.9	163.9	135.7	61.5
1.70V	1554.3	1317.7	1045.4	710.8	464.3	349.5	240.6	206.7	160.4	131.7	60.3
1.75V	1505.8	1268.2	1009.8	683.1	447.9	336.6	234.6	202.0	154.4	129.7	59.7
1.80V	1464.2	1208.8	974.2	667.3	439.6	324.7	228.1	196.0	150.5	127.7	58.8
1.83V	1384.0	1153.4	918.7	643.5	421.7	316.8	223.3	190.1	147.5	125.2	57.9
1.85V	1331.6	1100.9	866.3	606.9	403.9	307.5	217.4	185.6	145.5	122.8	56.4
1.88V	1257.3	1019.7	805.5	570.2	375.4	297.0	210.3	179.0	141.6	119.8	54.9
1.90V	1175.1	955.4	730.6	522.7	350.5	285.1	203.1	173.4	136.1	113.9	52.9
1.94V	1062.3	855.4	654.6	463.3	323.8	264.9	192.5	166.3	130.7	108.9	52.3