



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

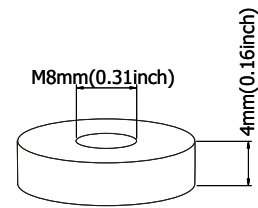
- Cable Television
- Communication Equipment
- Security System
- UPS
- Control Equipment
- Medical Equipment
- Emergency Power System
- Power Plant

General Features

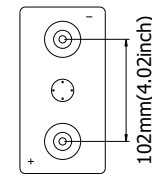
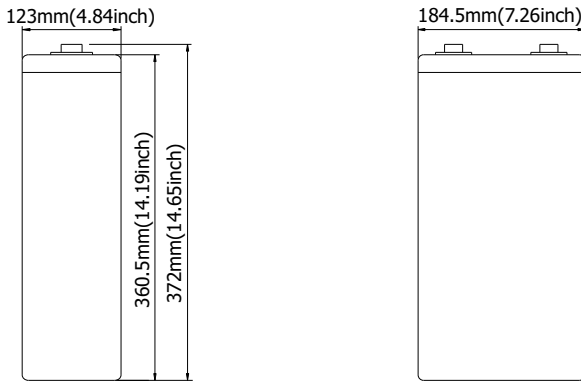
- Extra long life service design.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

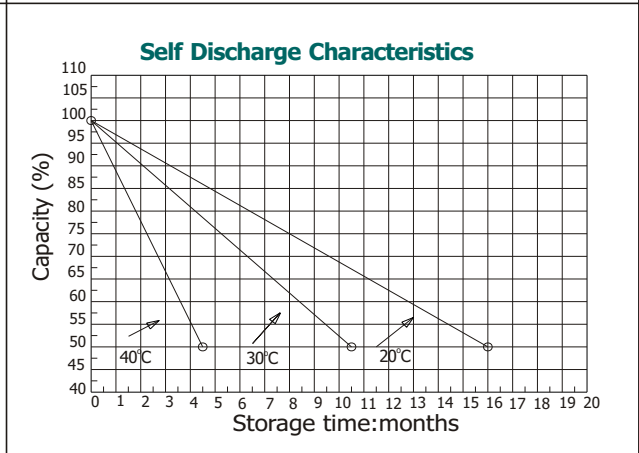
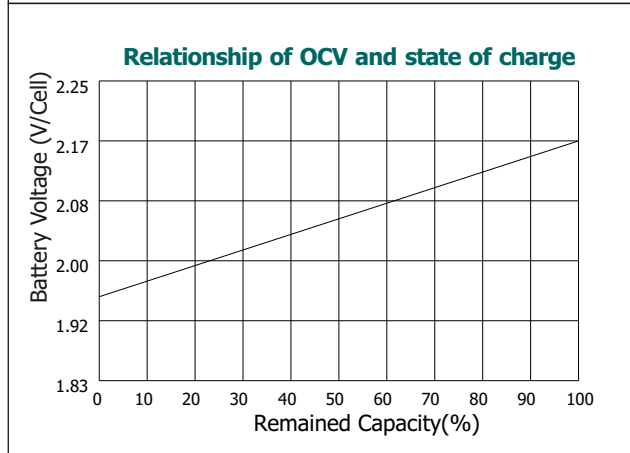
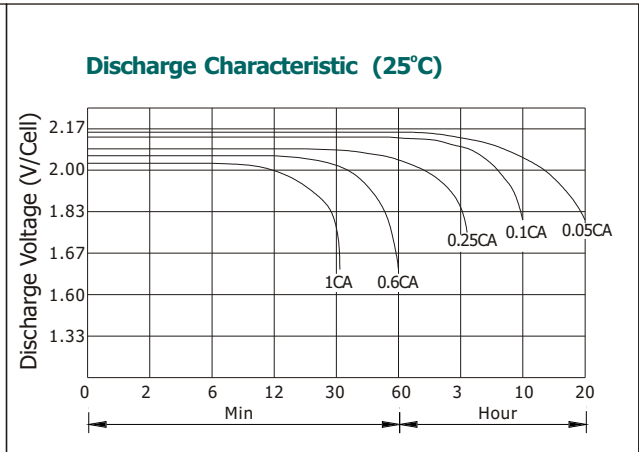
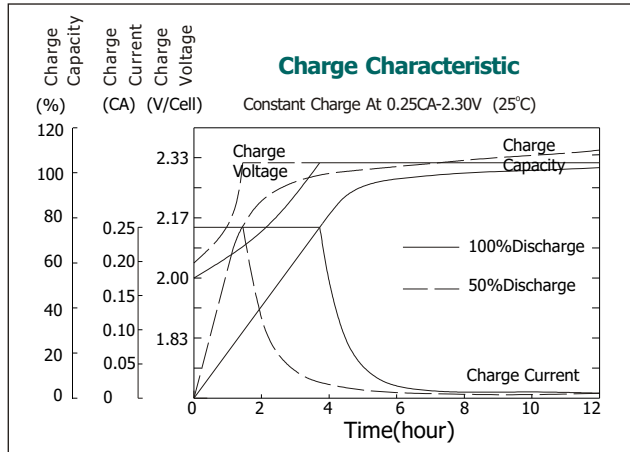
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFiber glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	LSE2-300			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(15.5A,1.75V)	10HR(30A,1.75V)	5HR(54A,1.75V)	1HR(194.1A,1.75V)
	309.9AH	300AH	270AH	194.1AH
Dimensions	Length	Width	Height	Total Height
	184.5mm(7.26inch)	123mm(4.84inch)	360.5mm(14.19inch)	372mm(14.65inch)
Approx. Weight	19Kg (41.85 lbs)			
Internal Resistance	Full charged at 25°C :0.47 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: 75A		2.25-2.27V(-3.3mV/ °C)	



Constant current discharge ratings -amperes at 25°C

End Voltage \ Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	500.0	418.7	310.1	196.0	115.5	84.8	57.5	49.6	39.6	32.8	14.8
1.65V	461.9	390.3	297.0	185.9	112.9	82.7	56.1	48.9	39.0	32.5	14.7
1.70V	431.8	366.0	273.2	177.6	108.7	80.3	55.6	48.3	38.3	32.0	14.7
1.75V	411.4	346.5	253.9	169.3	104.9	77.8	54.1	47.5	37.8	31.5	14.5
1.80V	395.7	326.7	237.6	158.6	100.4	75.4	52.8	46.3	37.1	30.8	14.3
1.83V	368.1	306.7	226.2	148.5	95.9	73.0	51.6	45.5	36.5	30.2	14.0
1.85V	350.4	289.7	211.9	143.2	90.6	71.6	51.0	44.8	36.1	30.0	13.8
1.88V	325.7	264.2	199.0	137.1	88.6	70.1	50.5	44.2	35.6	29.8	13.7
1.90V	301.3	245.0	181.8	127.1	84.9	67.1	49.1	43.2	34.7	29.0	13.5
1.94V	271.0	218.2	160.9	112.9	76.7	61.7	45.5	40.1	32.4	27.3	13.1

Constant power discharge ratings-watts at 25°C

End Voltage \ Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	849.9	711.8	566.8	403.9	260.6	193.1	127.5	108.9	85.1	69.5	31.3
1.65V	808.3	683.1	536.1	373.2	239.1	181.2	123.1	105.4	82.0	67.8	30.7
1.70V	777.2	658.8	522.7	355.4	232.2	174.7	120.3	103.4	80.2	65.8	30.1
1.75V	752.9	634.1	504.9	341.6	223.9	168.3	117.3	101.0	77.2	64.8	29.8
1.80V	732.1	604.4	487.1	333.6	219.8	162.4	114.0	98.0	75.2	63.9	29.4
1.83V	692.0	576.7	459.4	321.8	210.9	158.4	111.7	95.0	73.8	62.6	29.0
1.85V	665.8	550.4	433.1	303.4	202.0	153.7	108.7	92.8	72.8	61.4	28.2
1.88V	628.7	509.9	402.7	285.1	187.7	148.5	105.1	89.5	70.8	59.9	27.5
1.90V	587.6	477.7	365.3	261.4	175.2	142.6	101.6	86.7	68.1	56.9	26.4
1.94V	531.1	427.7	327.3	231.7	161.9	132.5	96.2	83.2	65.3	54.5	26.1