

XL series VRLA batteries are recognized as the most reliable and high quality battery system in the industry. By combining the service life reliability of a flooded battery with the performance energy density of a valve-regulated battery, XL series batteries designed with advanced AGM (Absorbent Glass Mat) technology, Long service life designed with 10 years. it is highly suited to telecom, UPS, renewable energy system, power stations and similar applications.

2V Voltage	3000Ah Capacity	AGM Technolog	20 years Design life
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Complied standards

- IEC 60896-21/22
- JIS C8704
- GB/T19639

Features and Benefits

- Thick plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Long Service Life, in Float or Cyclic

Construction

- Positive plate - Thick high Sn low Ca grid to resist corrosion and prolong life
- Negative plate - Balanced Pb-Ca grid for improved recombination efficiency
- Separator - Advanced AGM separator for ultra low float current
- Electrolyte - Dilute high purity sulphuric acid
- Battery container and cover - ABS
- Pillar seal - 100% factory tested, proven two layers epoxy resin seal
- Relief valve - Complete with integrated flame arrestor

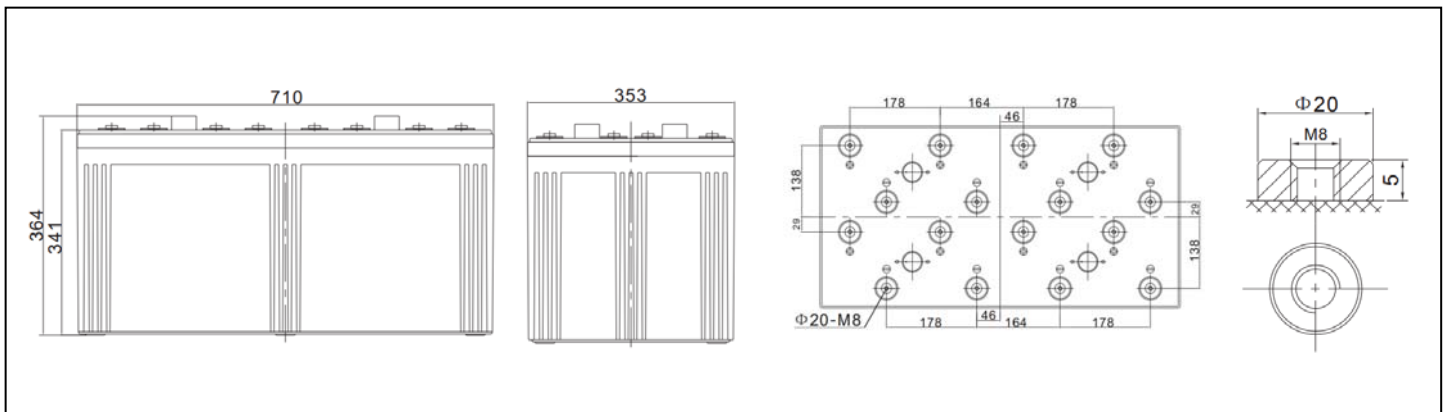
Applications

- Telecom
- Electric Utilities
- UPS systems
- Control Equipments
- Security Systems
- Medica Equipments
- Railroad Utilities
- Photovoltaic Systems
- Renewable Energy Systems

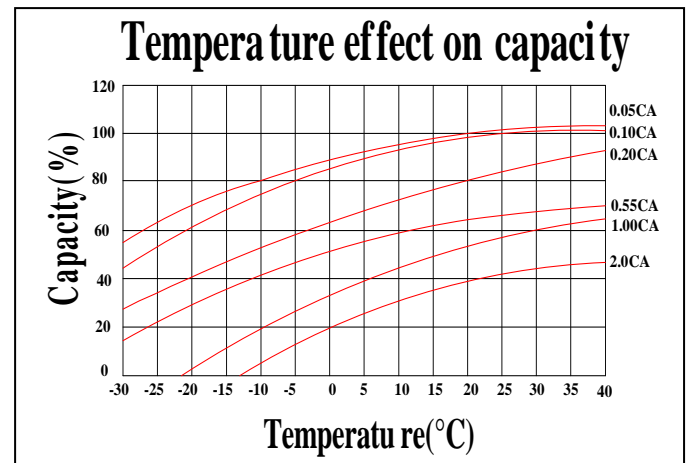
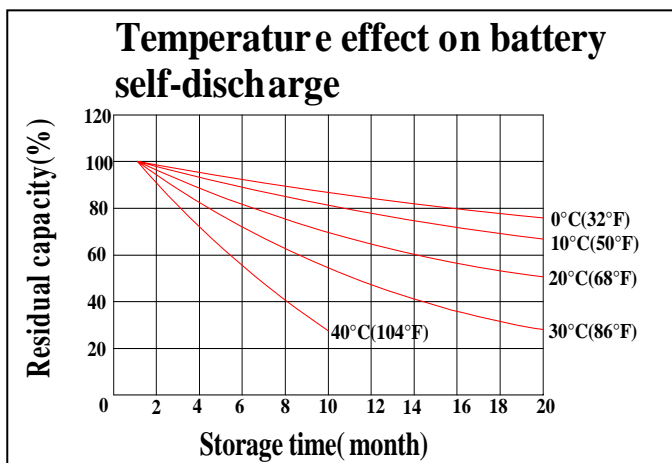
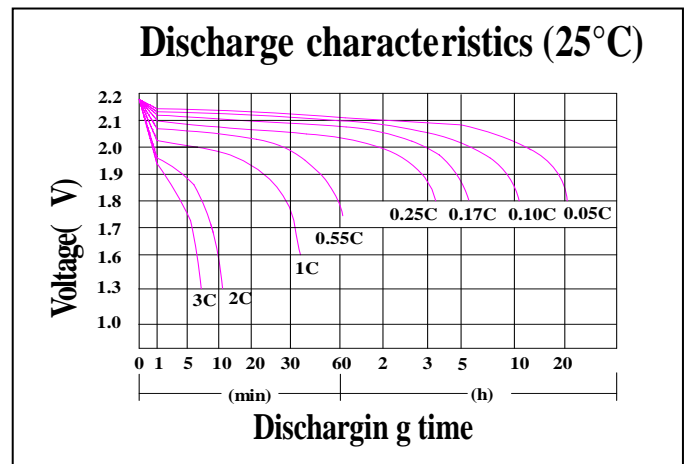
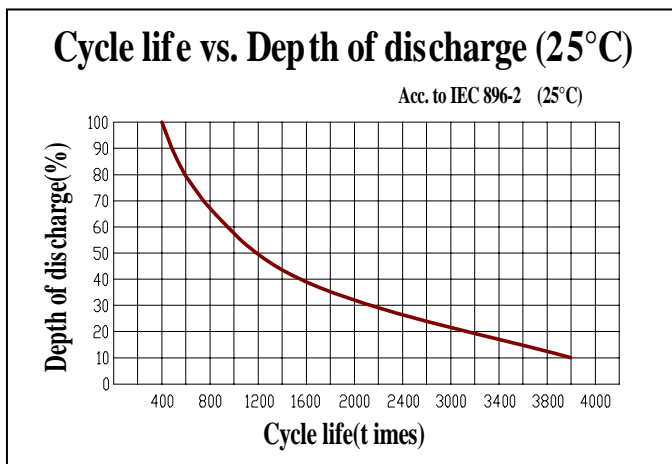
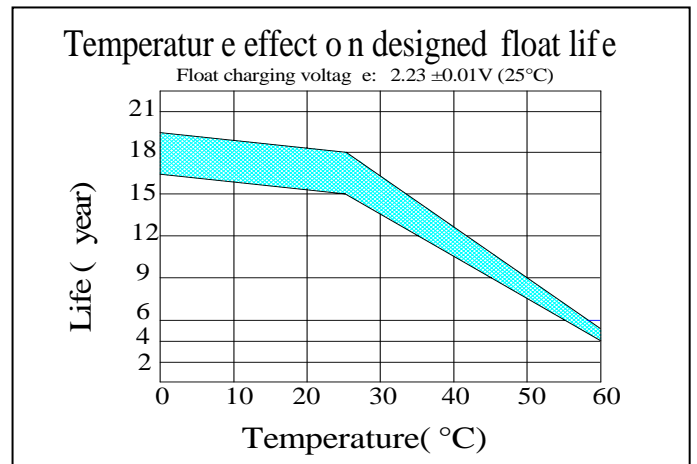
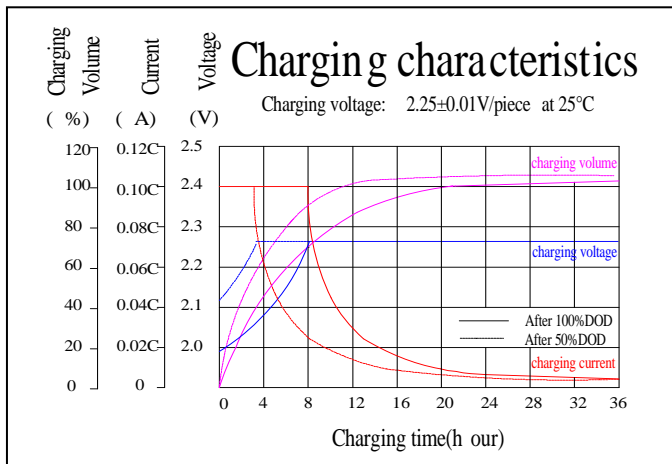
Technical Specifications

Nominal Voltage.....	2V (1 cells per unit)
Nominal Capacity(20°C)	
20hour rate(159A, 1.8V).....	3180Ah
10hour rate(300.0A, 1.8V).....	3000Ah
5hour rate(530A, 1.75V).....	2650Ah
1hour rate(1650A, 1.6V).....	1650Ah
Dimension(mm).....	L710 x W353 x H341 x TH364mm
Approx. Weight	178kg
Terminal Type.....	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance.....	0.08mΩ(fully Charged @20°C)
Max.Charge Current.....	450A
Max.Discharge Current (5s).....	9000A
Short Circuit Current.....	16000A
Ambient Temperature	
Discharge.....	-15-45°C
Charge.....	-15-45°C
Storage.....	-15-45°C
Capacity Affected by Temp.(10 hr capacity)	
105% @40°C	
100% @25°C	
85% @0°C	
65% @-15°C	
Self-Discharge @20°C.....	Approx. 3% per month
Charge Voltage @20~25°C	
Float charge voltage.....	2.23V-2.27V
Equalize Charge Voltage.....	2.33V-2.37V

Dimensions



Performance Characteristics



Battery Discharge

Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	2892	2184	1788	1072.8	810.0	652.8	550.2	476.4	377.4	313.8	164.4
1.65V	2763	2118	1740	1047.6	793.2	643.8	542.4	469.8	372.6	310.2	162.0
1.70V	2653	2040	1686	1017.0	775.8	630.0	531.0	462.0	367.8	306.0	161.4
1.75V	2542	1980	1638	988.2	756.0	616.8	522.0	454.2	361.8	303.0	159.6
1.80V	2408	1890	1572	948.6	729.0	596.4	506.4	443.4	355.2	300.0	159.0

Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	5301	4057	3363	2038	1550.4	1256	1064.4	927.6	741.0	619.2	325.8
1.65V	5116	3971	3296	2003	1525.8	1244	1053.6	918.0	733.2	613.2	322.2
1.70V	4948	3846	3212	1953	1500.0	1222	1035.0	904.8	724.8	606.6	318.6
1.75V	4782	3760	3137	1905	1466.4	1201	1020.6	891.0	714.6	601.2	315.6
1.80V	4566	3610	3024	1837	1417.8	1165	993.0	873.0	702.6	595.8	313.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistance	Female Copper Insert	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal