



XT Series-XT1250 12V 5.0Ah (20hr)

XT series General Purpose VRLA batteries are designed with AGM(Absorbent Glass Mat) technology. XT series offers 5 years($\leq 20\text{Ah}$) and 10 years($\geq 20\text{Ah}$) full maintenance free design life. With a compact design and good reliability, this series is highly suited for security and alarm systems, UPS systems, emergency light systems and other small backup applications.



Features and Benefits

- Wide operating temperature range from -15°C to 50°C
- Can be used at vertical or horizontal orientation
- Balanced design for both floating and cyclic operation
- Maintenance-free operation
- Low self-discharge rate and long shelf life

Applications

- Alarm systems
- Communication Equipments
- Control equipments
- Security systems
- Medica Equipments
- UPS systems
- Power tools
- Toys
- Emergency Power Systems
- Photovoltaic Systems
- Security Systems

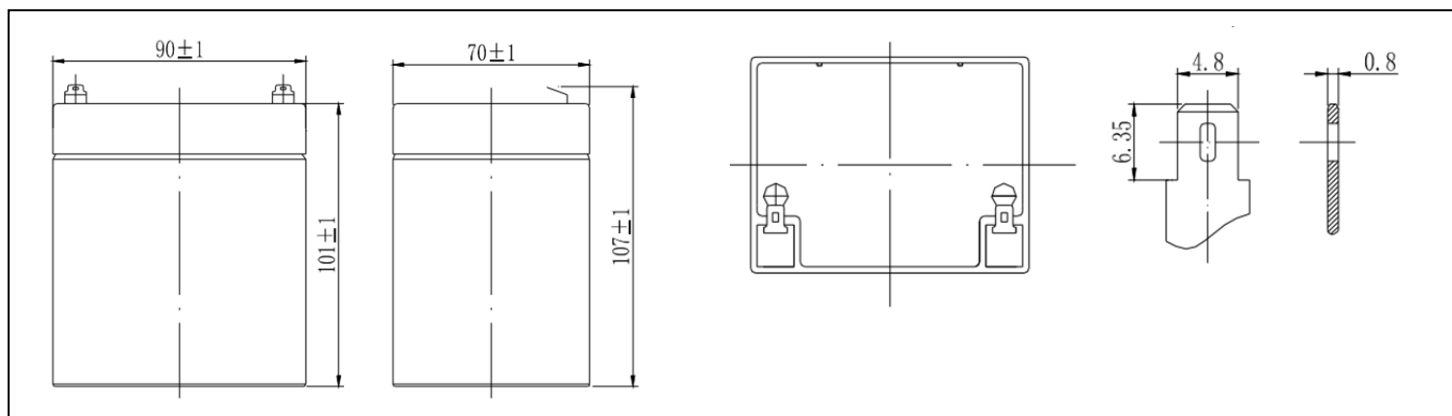
Technical Specifications

Nominal Voltage.....	12V
Nominal Capacity(20°C)	5.0Ah
20hour rate(0.25A,10.8V).....	5.0Ah
10hour rate(0.48A,10.8V).....	4.8Ah
5hour rate(0.89A,10.5V).....	4.45Ah
1hour rate(3.33A,9.6V).....	3.33Ah
Dimension(mm).....	L90 x W70 x H101 x TH107mm
Approx. Weight	1.65kg (3.64lbs)
Terminal Type.....	F1 or F2
Internal Resistance.....	30m Ω (fully Charged @ 20°C)
Max.Charge Current.....	1.5A
Max.Discharge Current (5s).....	75A
Ambient Temperature	
Discharge.....	$-15-45^{\circ}\text{C}$
Charge.....	$-15-45^{\circ}\text{C}$
Storage.....	$-15-45^{\circ}\text{C}$
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 @ $20-25^{\circ}\text{C}$	
Float charge voltage.....	13.6V-13.8V
Equalize Charge Voltage.....	14.4V-14.9V

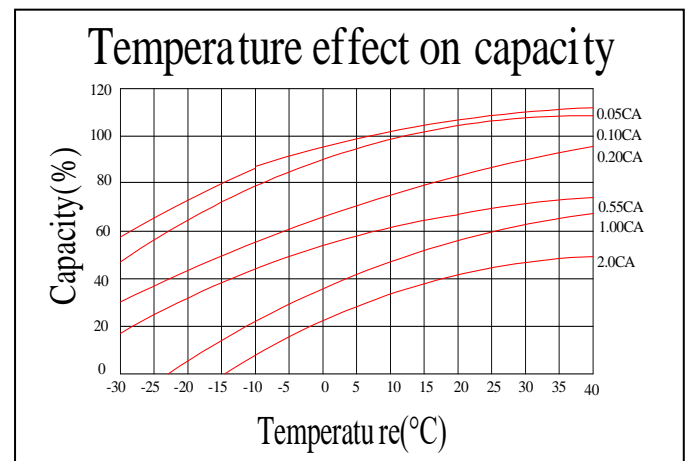
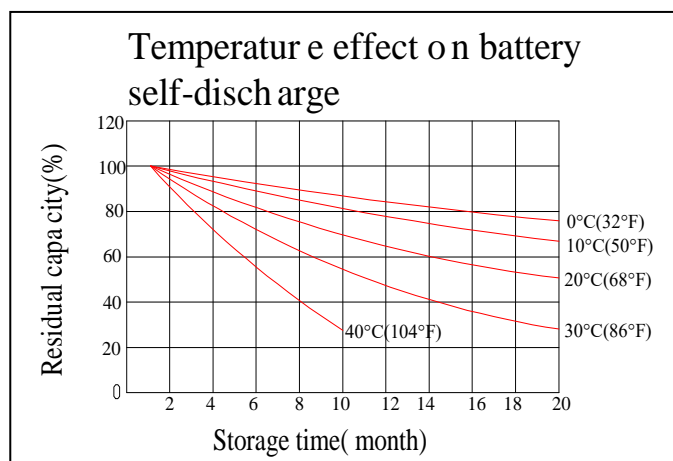
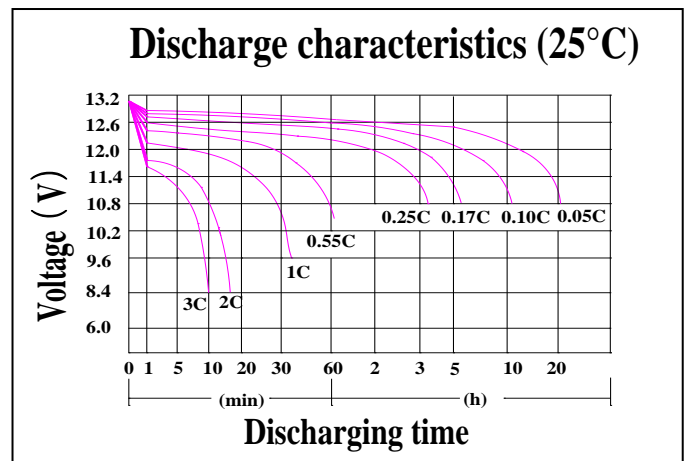
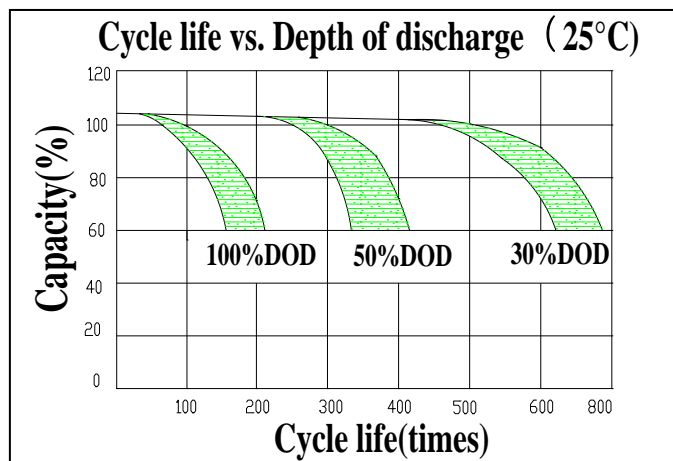
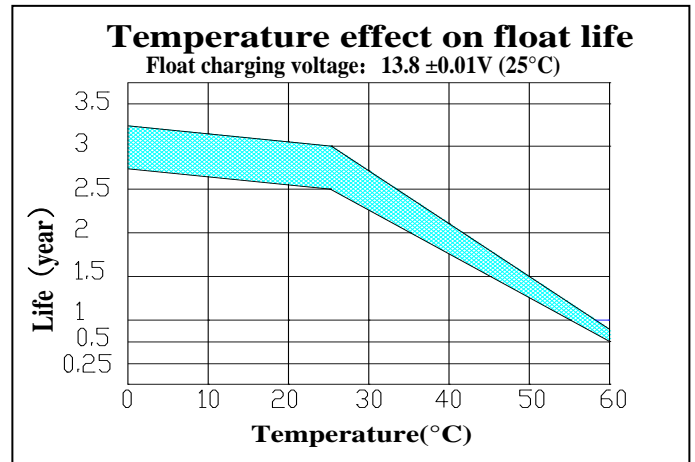
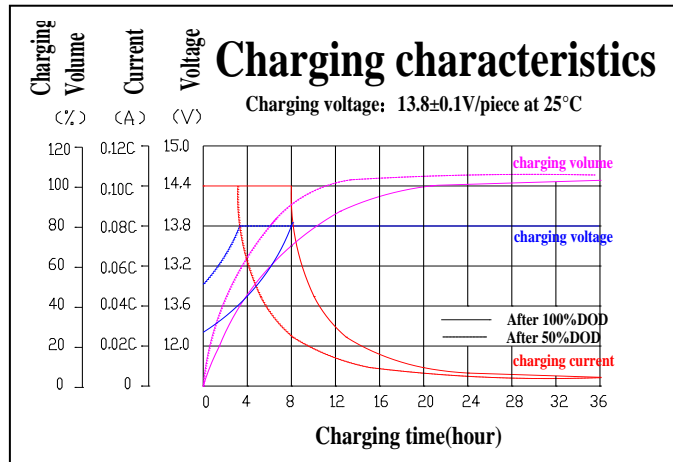
Complied standards

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

Dimensions



Performance Characteristics



Battery Discharge

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	17.1	11.0	8.28	5.50	3.85	3.33	2.06	1.41	0.94	0.63	0.52	0.28
1.65V	16.7	10.8	8.13	5.40	3.78	3.27	2.03	1.39	0.93	0.62	0.51	0.27
1.70V	16.4	10.6	7.98	5.30	3.71	3.21	1.99	1.36	0.91	0.61	0.50	0.27
1.75V	16.1	10.4	7.83	5.20	3.64	3.15	1.95	1.34	0.89	0.60	0.49	0.26
1.80V	15.5	10.0	7.52	5.00	3.50	3.03	1.88	1.28	0.86	0.58	0.48	0.25

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	32.8	21.2	15.9	10.6	7.41	6.41	3.97	2.72	1.81	1.22	1.01	0.53
1.65V	32.2	20.8	15.6	10.4	7.28	6.29	3.90	2.67	1.78	1.20	0.99	0.52
1.70V	31.6	20.4	15.4	10.2	7.14	6.17	3.83	2.62	1.75	1.18	0.97	0.51
1.75V	31.0	20.0	15.1	10.0	7.01	6.06	3.75	2.57	1.72	1.15	0.95	0.50
1.80V	29.8	19.3	14.5	9.6	6.74	5.82	3.61	2.47	1.65	1.11	0.92	0.48

Battery Construction

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 resister	Copper No.250 (No.187 optional)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal