

General Series Battery

(GP) Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. GP Series Batteries are the general purpose batteries with 10 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard. UL(MH62092), CE approved.

Application

- * Emergency Power System
- * Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- * Electric toy car and wheelchairs, etc.
- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System



General Features

- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Long Life and low self-discharge design

Construction

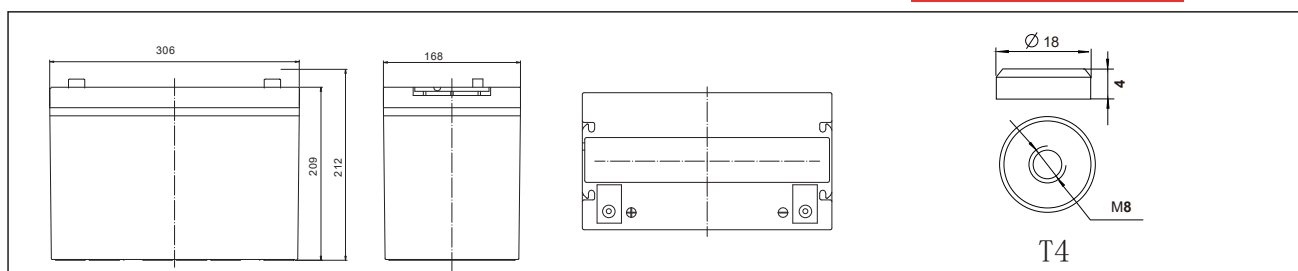
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		95 Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	306mm(12.04inch)	168mm(6.61inch)	209mm(8.22inch)	212mm(8.34inch)
Approx Weight	25.0kg(55.1lbs)±3%			
Capacity @ 25°C (77°F)	10 hour rate(9.5A, 10.5V)	8 hour rate(11.84A, 10.5V)	3 hour rate(24.56A, 10.8V)	1 hour rate(50.8A, 9.6V)
	95Ah	94.72Ah	73.68Ah	50.8Ah
Max. discharge current	900A(5 sec.)			
Internal Resistance	Full charged at 25°C: Approx 5.5mΩ			
Capacity affected by Temp.(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.40-15.0V(Initial charge current less than 27A)		13.50-13.80V	

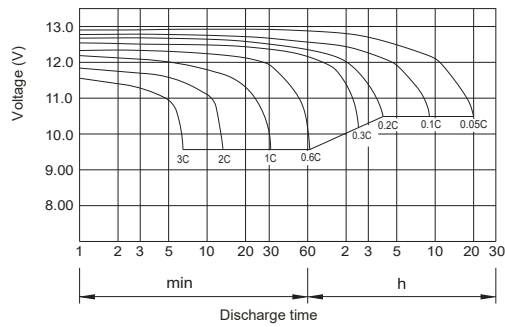
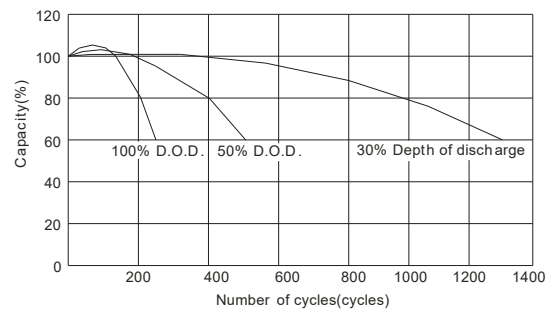
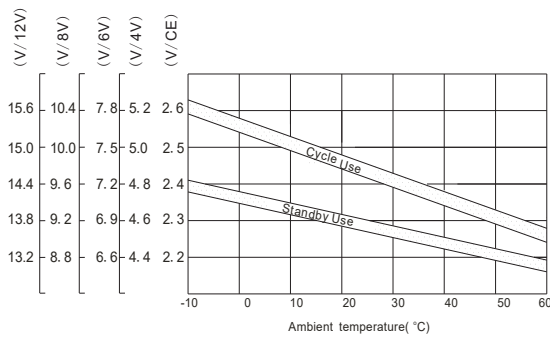
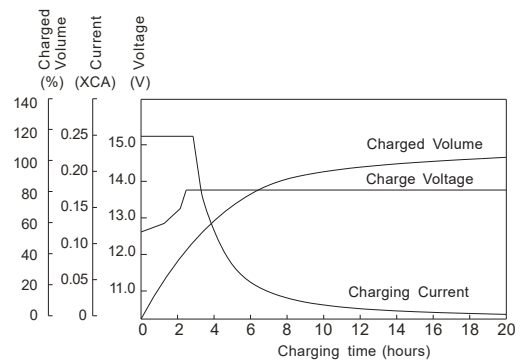
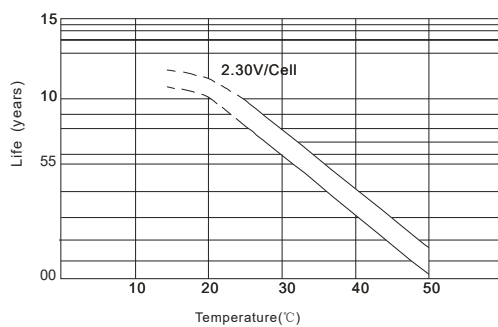
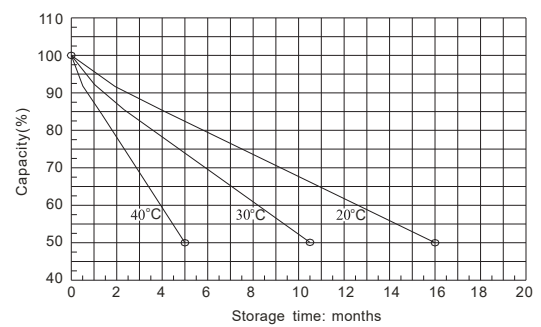
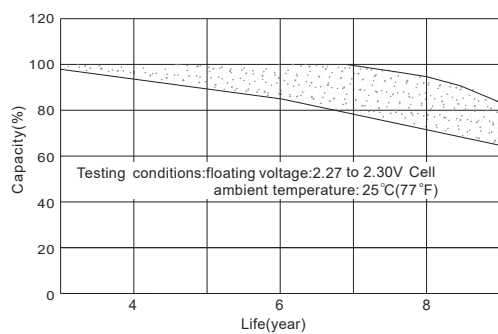
Outer dimensions (mm)

Terminal Type (mm)



Constant Current(Amp) and Constand Power(Watt) Discharge Table at 25°C(77°F)

F.V/time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	157.600	95.000	50.800	37.180	35.167	25.050	17.096	12.105	9.858	5.473
	304.168	189.240	101.346	74.237	70.363	50.122	34.205	24.220	19.723	10.950
1.67V	149.413	92.970	50.432	36.812	34.992	24.919	17.001	12.003	9.704	5.199
	288.592	185.289	100.618	73.520	70.071	49.949	34.078	24.065	19.457	10.424
1.70V	145.729	92.158	50.064	36.775	34.904	24.856	16.997	11.882	9.582	5.060
	281.694	183.677	100.005	73.476	69.925	49.836	34.079	23.836	19.221	10.151
1.75V	139.589	90.534	49.328	36.296	34.685	24.700	16.907	11.849	9.500	4.980
	270.104	180.572	98.778	72.592	69.474	49.548	33.916	23.788	19.071	9.997
1.80V	133.858	88.504	48.959	36.039	34.466	24.569	16.860	11.747	9.347	4.816
	259.416	176.603	98.164	72.257	69.049	49.309	33.838	23.600	18.778	9.675
1.85V	126.899	86.068	48.223	35.634	34.160	24.350	16.766	11.594	9.194	4.652
	246.183	171.866	96.832	71.624	68.465	48.918	33.683	23.316	18.488	9.354

Discharge characteristic Curve

Cycle service life in relation to depth of discharge

Relationship between charging voltage and temperature

Constant voltage charging characteristic (0.25CA, at 25°C)

Temperature effects on float life

Self-discharge characteristic

Life characteristics of standby use

Charge characteristic Curve for standby use
