



This is a general purpose battery with 5 years floating design life , meet with IEC, JIS standard .With heavy duty grid, thickness plates, special additives, these batteries have long and reliable standby service life.

## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	3.2Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 1.3 Kg
Max. Discharge Current	32 A (5 sec)
Internal Resistance	Approx. 45 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	0.96 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston Tab 187(F1)
Container Material	A.B.S. (UL94-HB) , Flammability resistance of UL94-V2 can be available upon request.



## Dimensions

Unit: mm Dimension: 135(L)×67(W)×67(H)



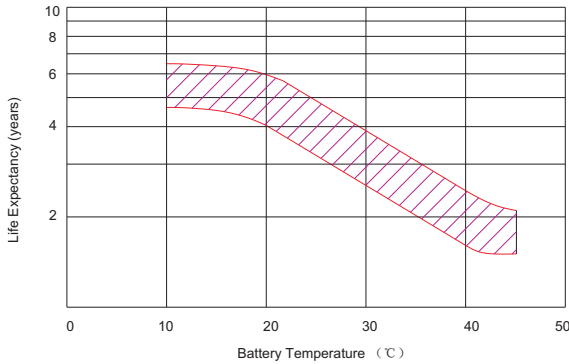
### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	13.01	8.531	6.687	3.754	2.230	1.285	0.873	0.699	0.580	0.369	0.320	0.180
10.0V	12.54	8.318	6.473	3.706	2.170	1.259	0.857	0.689	0.570	0.368	0.317	0.173
10.2V	11.80	7.906	6.293	3.649	2.149	1.245	0.849	0.682	0.564	0.365	0.312	0.170
10.5V	10.61	7.393	5.935	3.548	2.107	1.229	0.842	0.676	0.557	0.361	0.310	0.165
10.8V	9.508	6.894	5.600	3.431	2.069	1.219	0.832	0.672	0.551	0.360	0.305	0.155
11.1V	8.318	6.321	5.166	3.301	2.013	1.170	0.816	0.666	0.546	0.357	0.300	0.153

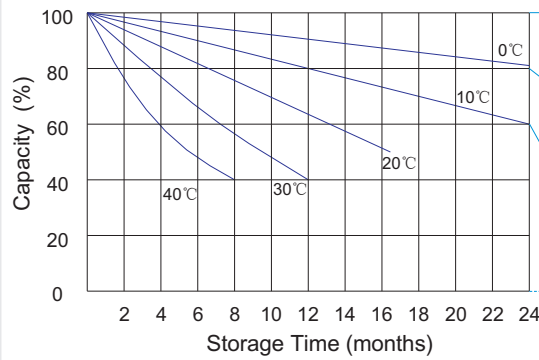
### Constant Power Discharge Characteristics : W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	136.88	90.74	71.59	42.97	25.90	14.99	10.20	8.266	6.868	4.424	3.832	2.152
10.0V	133.32	88.85	70.56	42.52	25.52	14.86	10.18	8.247	6.833	4.407	3.796	2.075
10.2V	126.81	85.34	69.63	42.15	25.33	14.76	10.15	8.179	6.766	4.374	3.760	2.037
10.5V	115.74	81.82	66.00	41.29	24.99	14.65	10.10	8.104	6.686	4.337	3.721	1.979
10.8V	104.42	76.54	62.36	40.32	24.58	14.52	9.986	8.074	6.616	4.318	3.664	1.864
11.1V	92.09	71.26	58.73	39.21	24.12	14.02	9.790	7.993	6.553	4.288	3.610	1.834

**Effect of temperature on long term float life**



**Storage characteristic**



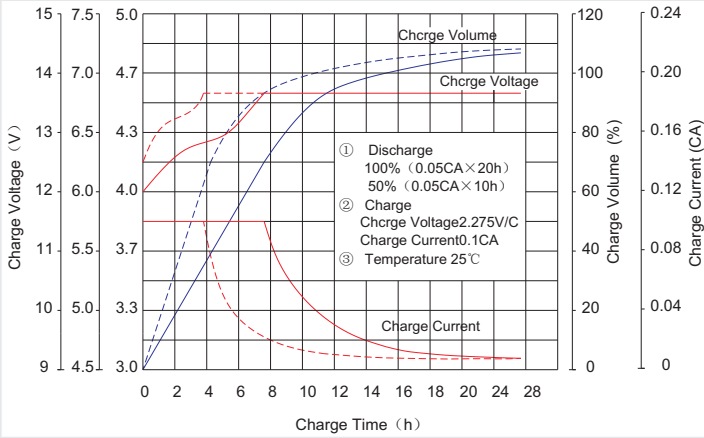
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

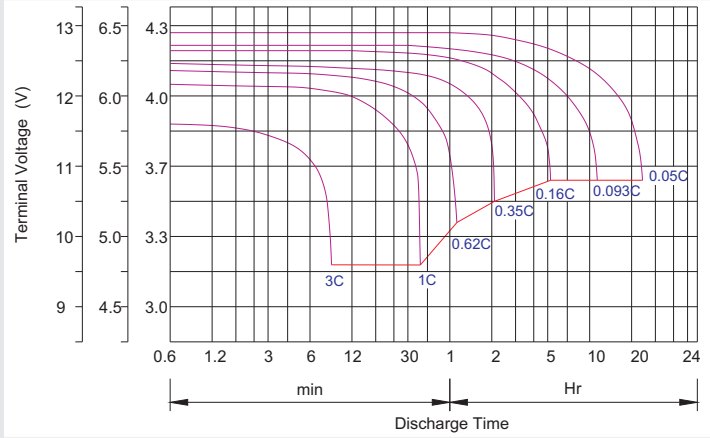
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

**Charge characteristic Curve for standby use**



**Discharge characteristic Curve**



**Capacity Factors With Different Temperature**

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

**Discharge Current VS. Discharge Voltage**

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

**Maintenance & Cautions**

<b>Float Service:</b>
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

**Charge the batteries at least once every six months, if they are stored at 25°C.**

Charging Method:

Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h