

(12V1.3Ah)





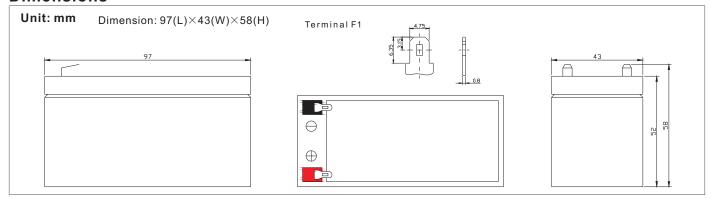
This is a general purpose battery with 5 years floating design life, meet with IEC, JIS standard. With heavy duty grid, thickness plates, special additives, these batteries have long and reliable standby service life.

## **Specification**

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Cells Per Unit	6
Voltage Per Unit	12
Capacity	1.3Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 0.6 Kg
Max. Discharge Current	13 A (5 sec)
Internal Resistance	Approx. 95 m $\Omega$
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	0.39 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	Valve Regul ated 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)
Constainer Material	A.B.S. (UL94-HB), Flammability resistance of UL94-Vican be available upon request.



#### **Dimensions**



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

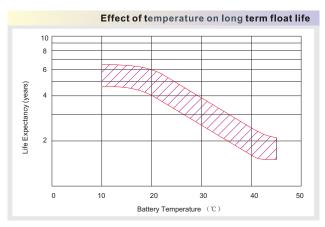
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60 V	5.286	3.466	2.717	1.525	0.906	0.522	0.355	0.284	0.236	0.150	0.130	0.073
10.0 V	5.095	3.379	2.629	1.505	0.881	0.511	0.348	0.280	0.232	0.150	0.129	0.070
10.2V	4.796	3.212	2.556	1.482	0.873	0.506	0.345	0.277	0.229	0.148	0.127	0.069
10.5 V	4.311	3.003	2.411	1.442	0.856	0.499	0.342	0.274	0.226	0.147	0.126	0.067
10.8 V	3.863	2.801	2.275	1.394	0.840	0.495	0.338	0.273	0.224	0.146	0.124	0.063
11.1V	3.379	2.568	2.099	1.341	0.818	0.475	0.331	0.271	0.222	0.145	0.122	0.062

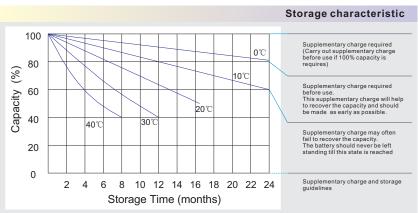
### Constant Power Discharge Characteristics: W(25°C)

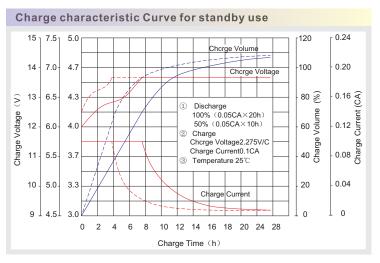
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	55.61	36.86	29.08	17.46	10.52	6.088	4.145	3.358	2.790	1.797	1.557	0.874
10.0V	54.16	36.10	28.66	17.27	10.37	6.036	4.137	3.350	2.776	1.790	1.542	0.843
10.2V	51.52	34.67	28.29	17.13	10.29	5.998	4.121	3.323	2.749	1.777	1.528	0.827
10.5V	47.02	33.24	26.81	16.78	10.15	5.950	4.105	3.292	2.716	1.762	1.512	0.804
10.8V	42.42	31.09	25.33	16.38	9.986	5.901	4.057	3.280	2.688	1.754	1.489	0.757
11.1V	37.41	28.95	23.86	15.93	9.799	5.697	3.977	3.247	2.662	1.742	1.467	0.745

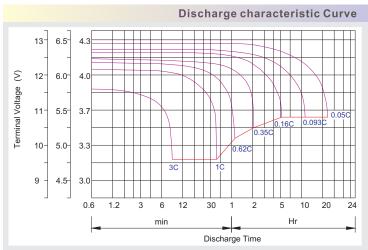


# (12V1.3Ah) Order Part No: PLAB1.3AH









## **Capacity Factors With Different Temperature**

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

# 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

#### **Maintenance & Cautions**

FI	oat Service:
*	Every month, recommend inspection every battery voltage.
*	Every three months, recommend equalization charge for one time.
E	qualization charge method:
Di	scharge: 100% rate capacity discharge.

Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.

- Eength of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.