(12V7Ah)





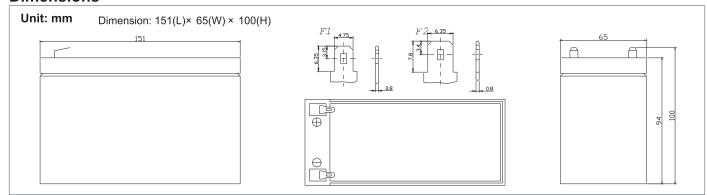
This is a general purpose battery with 5 years design life in float service . It meets with IEC and JIS standards .With up-dated AGM valve regulated technology and high purity raw materials, this battery has reliable standby service life. Typically used for fire alarm panels.

## **Specification**

_	
Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.0Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 2.00 Kg(Tolerance±4%)
Max. Discharge Current	70A (5 sec)
Internal Resistance	Approx. 30 mΩ(Tolerance± 10%)
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20° C~60°C
Normal Operating Temperature Range	25℃± 5℃
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current	2.1 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)/Faston tab 250(F2)
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.



#### **Dimensions**



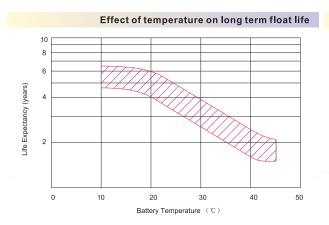
Constant Cu	urrent Dis	scharge (	Characte	ristics :	A(25°C	C)						
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	25.01	16.40	12.21	6.501	4.549	2.573	1.833	1.493	1.227	0.808	0.700	0.375
10.0V	24.11	15.99	11.82	6.417	4.489	2.521	1.799	1.472	1.216	0.805	0.693	0.371
10.2V	22.69	15.20	11.49	6.319	4.446	2.495	1.783	1.457	1.208	0.798	0.682	0.361
10.5V	20.40	14.21	10.84	6.145	4.392	2.462	1.767	1.436	1.198	0.791	0.679	0.353
10.8V	18.27	13.25	10.23	5.942	4.331	2.442	1.747	1.387	1.192	0.787	0.667	0.339
11.1V	15.99	12.15	9.435	5.716	4.228	2.344	1.713	1.367	1.187	0.781	0.657	0.334

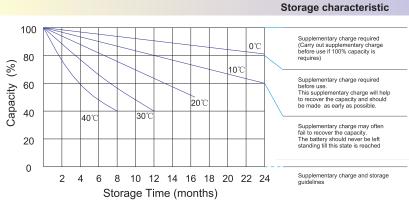
Constant Po	ower Disc	charge C	haracteri	stics : W	(25 C) °							
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	271.2	179.8	134.8	74.41	54.39	30.32	21.92	17.87	14.70	9.678	8.383	4.494
10.0V	264.2	176.1	132.8	73.64	53.59	29.92	21.56	17.62	14.57	9.641	8.304	4.458
10.2V	251.3	169.1	131.1	73.00	53.19	29.66	21.37	17.46	14.48	9.568	8.197	4.343
10.5V	229.3	162.1	124.2	71.51	52.48	29.34	21.22	17.22	14.36	9.488	8.140	4.270
10.8V	206.9	151.7	117.4	69.82	51.79	29.13	20.97	16.64	14.30	9.446	8.016	4.099
11.1V	182.5	141.2	110.6	67.90	50.65	28.11	20.56	16.40	14.25	9.379	7.897	4.034

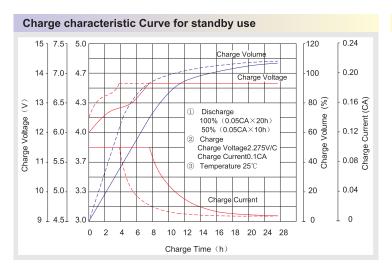


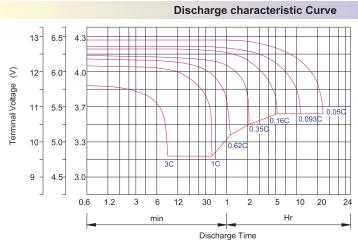
# (12V7Ah)

### **Order Part No: PLAB7AH**









#### **Capacity Factors With Different Temperature**

Battery	Туре	-20℃	-10°C	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 $25^{\circ}$ C.

#### Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N−m	8~10N-m	10~12N-m

#### **Maintenance & Cautions**

Float Service
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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 0.3C, 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.