



P O W E R

DCP12-7.0 (12V7Ah)



Features:

Structure: compact design, shorter internal connectors between cells, thus low internal resistance

Plate: Pasted flat type, with patent formula of AM

Terminal: Two or more types terminals are convenient for selection

Vent system: Gas can be vented through flame arrester

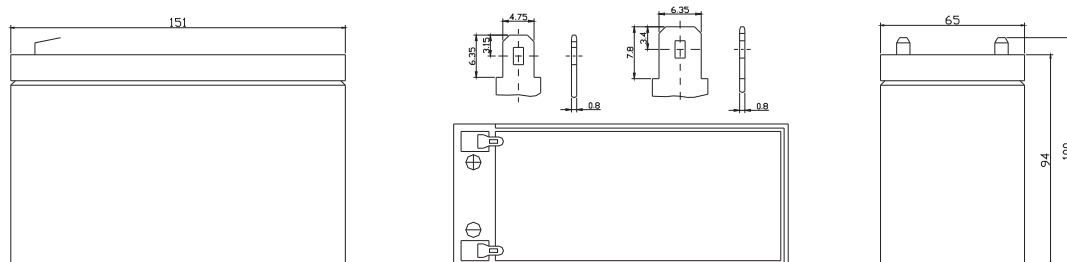
Separator: Using improved AGM separator, make lower resistance higher assembling pressure to increase cycle life

Battery case: Made of high strength ABS and UL94-V0 is optional

Terminal sealing: Double sealing technics(mechanical+epoxy gule)

Dimensions

Unit: mm Dimension: 151(L)*65(W)*93.5(H)



Application:

Small UPS
Emergency Light
Security System
Toys
Illumination light
Fire alarms
Medical equipments

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	7Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 2.00 Kg
Max. Discharge Current	70A (5 sec)
Internal Resistance	Approx. 25 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	2.16 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	Up to 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F1/F2
Container Material	A.B.S. (UL94-HB) , Flammability resistance of UL94-V1 can be available upon request.

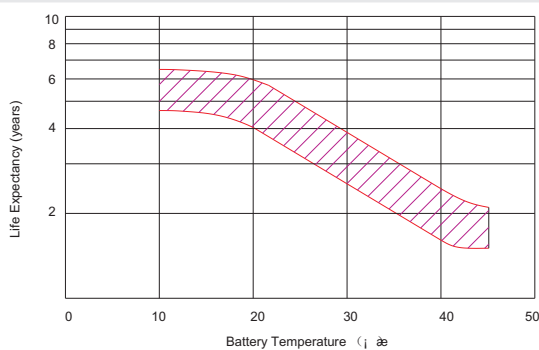
Constant Current Discharge Characteristics : A(25 C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	26.23	17.20	12.81	6.818	4.322	2.643	1.742	1.418	1.166	0.768	0.665	0.356
10.0V	25.28	16.77	12.40	6.730	4.265	2.590	1.709	1.398	1.155	0.765	0.658	0.353
10.2V	23.80	15.94	12.05	6.628	4.224	2.562	1.694	1.384	1.148	0.758	0.648	0.343
10.5V	21.39	14.90	11.37	6.445	4.172	2.529	1.679	1.364	1.138	0.751	0.645	0.336
10.8V	19.17	13.90	10.73	6.232	4.114	2.508	1.659	1.317	1.133	0.748	0.634	0.322
11.1V	16.77	12.74	9.90	5.995	4.016	2.407	1.627	1.298	1.128	0.742	0.624	0.317

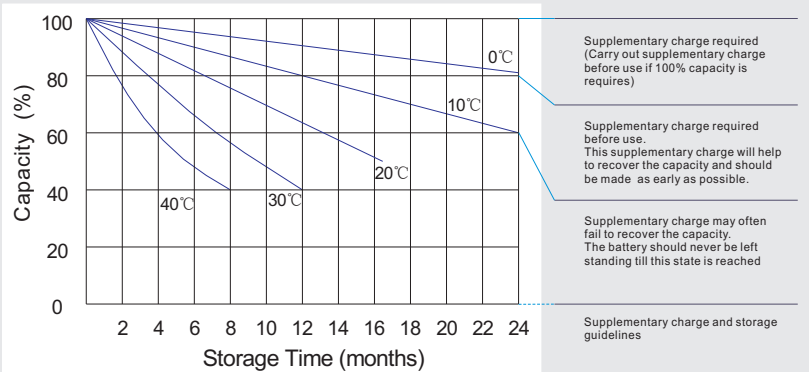
Constant Power Discharge Characteristics : W(25 C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	284.5	188.6	141.3	78.04	51.67	31.14	20.82	16.98	13.97	9.195	7.964	4.270
10.0V	277.1	184.6	139.3	77.23	50.91	30.73	20.48	16.74	13.84	9.159	7.889	4.235
10.2V	263.5	177.3	137.5	76.56	50.53	30.46	20.31	16.58	13.76	9.090	7.787	4.126
10.5V	240.5	170.0	130.3	75.00	49.85	30.14	20.16	16.36	13.65	9.013	7.733	4.057
10.8V	217.0	159.1	123.1	73.22	49.20	29.92	19.92	15.81	13.58	8.974	7.615	3.894
11.1V	191.4	148.1	115.9	71.21	48.12	28.87	19.53	15.58	13.53	8.910	7.502	3.832

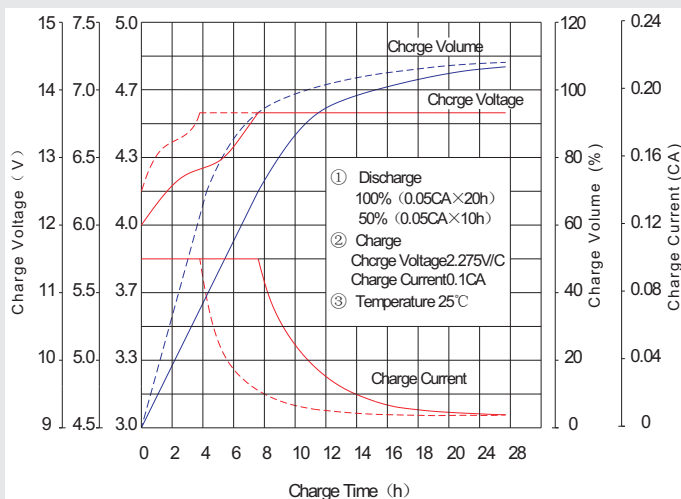
Effect of Temperature on long term Float Life



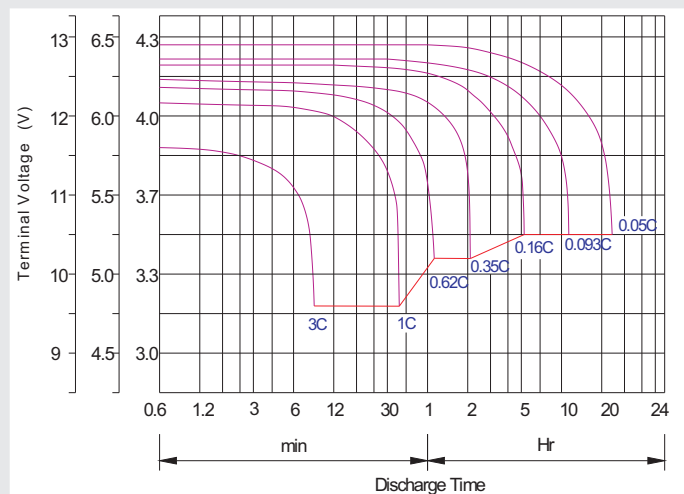
Storage characteristic



Charge Characteristic Curve for Standby Use



Discharge Characteristic Curve



Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	$A \leq 0.2C$	$0.2C < A < 1.0C$	$A \geq 1.0C$

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

Charge the batteries at least once every six months, if they are stored at 25°C
Avoid battery over discharge, especially battery series connection use..