



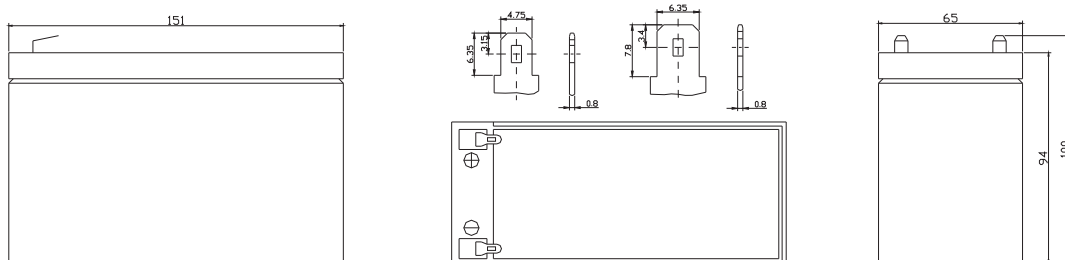
DCP12-9.0 (12V9Ah)

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)*94(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 | 9Ah@20hr-rate to 1.75V per cell @25°C |
| Weight | Approx. 2.5Kg |
| Max. Discharge Current | 90A (5 sec) |
| Internal Resistance | Approx.1 8 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 | 2.7 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. |

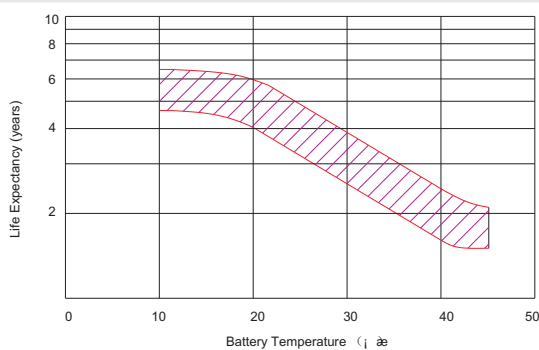
Constant Current Discharge Characteristics : A(25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60V | 35.50 | 23.27 | 17.33 | 9.23 | 5.849 | 3.577 | 2.357 | 1.920 | 1.578 | 1.039 | 0.900 | 0.482 |
| 10.0V | 34.22 | 22.69 | 16.78 | 9.11 | 5.772 | 3.505 | 2.313 | 1.892 | 1.564 | 1.035 | 0.890 | 0.478 |
| 10.2V | 32.20 | 21.57 | 16.31 | 8.97 | 5.717 | 3.468 | 2.293 | 1.874 | 1.553 | 1.026 | 0.877 | 0.464 |
| 10.5V | 28.95 | 20.17 | 15.39 | 8.722 | 5.646 | 3.422 | 2.272 | 1.846 | 1.540 | 1.017 | 0.872 | 0.454 |
| 10.8V | 25.94 | 18.81 | 14.52 | 8.434 | 5.568 | 3.394 | 2.246 | 1.783 | 1.533 | 1.012 | 0.858 | 0.436 |
| 11.1V | 22.69 | 17.24 | 13.39 | 8.114 | 5.436 | 3.258 | 2.202 | 1.757 | 1.526 | 1.004 | 0.845 | 0.429 |

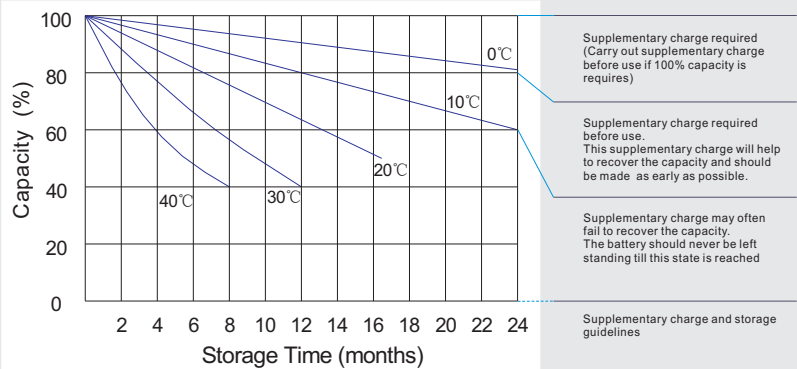
Constant Power Discharge Characteristics : W(25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60V | 385.0 | 255.2 | 191.3 | 105.6 | 69.92 | 42.15 | 28.18 | 22.98 | 18.90 | 12.44 | 10.78 | 5.779 |
| 10.0V | 375.0 | 249.9 | 188.5 | 104.5 | 68.90 | 41.59 | 27.72 | 22.65 | 18.73 | 12.40 | 10.68 | 5.732 |
| 10.2V | 356.7 | 240.0 | 186.0 | 103.6 | 68.39 | 41.23 | 27.48 | 22.44 | 18.62 | 12.30 | 10.54 | 5.584 |
| 10.5V | 325.5 | 230.1 | 176.3 | 101.5 | 67.47 | 40.79 | 27.28 | 22.14 | 18.47 | 12.20 | 10.47 | 5.490 |
| 10.8V | 293.7 | 215.3 | 166.6 | 99.1 | 66.59 | 40.49 | 26.96 | 21.39 | 18.38 | 12.14 | 10.31 | 5.270 |
| 11.1V | 259.0 | 200.4 | 156.9 | 96.4 | 65.13 | 39.08 | 26.43 | 21.09 | 18.32 | 12.06 | 10.15 | 5.187 |

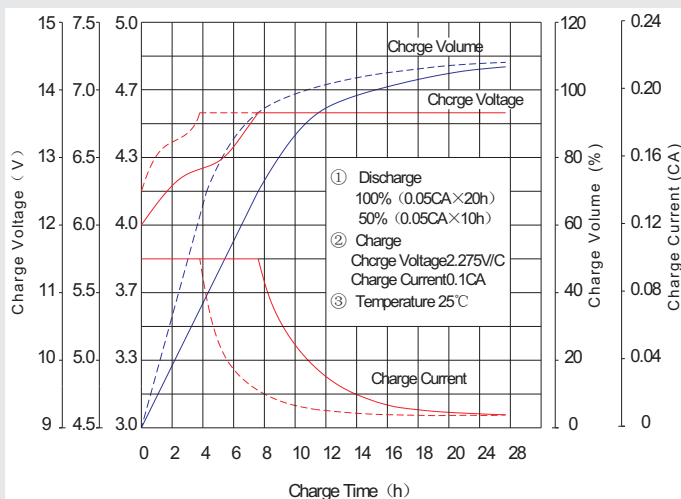
Effect of Temperature on long term Float Life



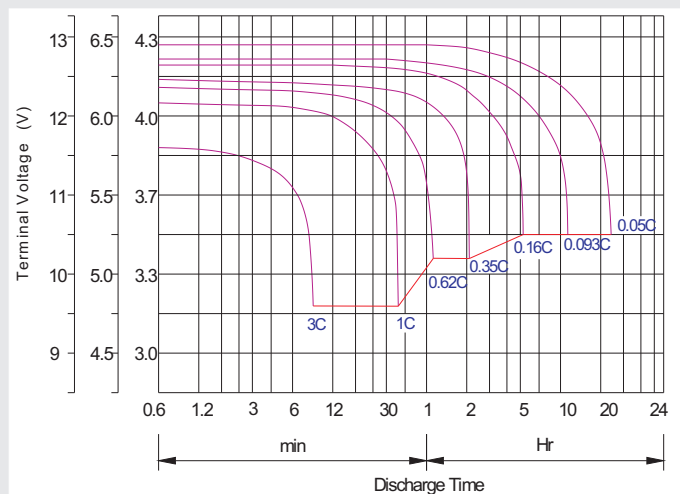
Storage characteristic



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..