# 712085 (12V85Ah)

**712085** is AGM Deep cycle battery with 10 years floating design life, specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, it makes battery have 30% more cyclic life time than standby series. It is applicable for solar energy system, golf cart, electric wheelchair, etc..

## Specification

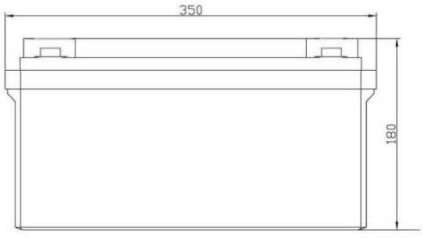
| | |
|---|---|
| **Cells Per Unit** | 6 |
| **Voltage Per Unit** | 12 |
| **Capacity** | 85Ah@10hr-rate to 1.75V per cell @25°C |
| **Weight** | Approx. 24.0 Kg |
| **Max. Discharge Current** | 800 A (5 sec) |
| **Internal Resistance** | Approx. 5.5 mΩ |
| **Operating Temperature Range** | Discharge: -20°C~60°C<br>Charge: 0°C~50°C<br>Storage: -20°C~60°C |
| **Normal Operating Temperature Range** | 25°C±5°C |
| **Float charging Voltage** | 13.6 to 13.8 VDC/unit Average at 25°C |
| **Recommended Maximum Charging Current Limit** | 24A |
| **Equalization and Cycle Service** | 14.6 to 14.8 VDC/unit Average at 25°C |
| **Self Discharge** | ONE7 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** | Terminal **M6** |
| **Container Material** | A.B.S. (UL94-HB) , Flammability resistance of UL94-V1 can be available upon request. |

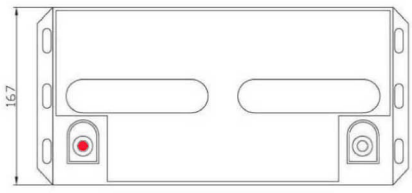
G4M20206-0910-E-16

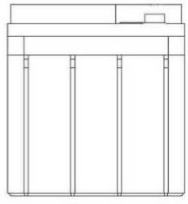
ISO9001:2000 Certificate

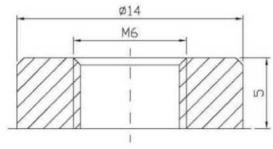
## Dimensions

**Unit: mm** Dimension: 350(L)×167(W)×180(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 | 275.7 | 197.6 | 143.8 | 88.32 | 49.92 | 28.31 | 20.04 | 16.59 | 13.06 | 9.540 | 8.066 | 4.266 |
| 10.0V | 268.4 | 188.0 | 140.8 | 86.86 | 49.69 | 28.09 | 19.97 | 16.51 | 12.98 | 9.462 | 7.989 | 4.188 |
| 10.2V | 252.9 | 181.4 | 138.6 | 86.09 | 49.23 | 27.87 | 19.81 | 16.44 | 12.90 | 9.385 | 7.911 | 4.111 |
| 10.5V | 227.1 | 167.4 | 132.0 | 83.94 | 48.77 | 27.65 | 19.74 | 16.28 | 12.75 | 9.307 | 7.834 | 4.033 |
| 10.8V | 205.0 | 152.6 | 121.7 | 80.26 | 47.62 | 27.14 | 19.20 | 15.90 | 12.52 | 9.152 | 7.756 | 3.956 |
| 11.1V | 178.4 | 136.4 | 109.1 | 75.19 | 45.24 | 26.70 | 18.36 | 15.13 | 11.98 | 8.764 | 7.523 | 3.723 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.60V | 2873 | 2101 | 1547 | 996.7 | 570.9 | 334.9 | 231.3 | 191.7 | 151.1 | 110.7 | 90.70 | 47.91 |
| 10.0V | 2815 | 2007 | 1515 | 984.3 | 568.2 | 333.6 | 230.9 | 191.2 | 150.2 | 110.2 | 89.77 | 47.44 |
| 10.2V | 2657 | 1940 | 1494 | 972.7 | 564.0 | 330.5 | 229.5 | 190.3 | 149.8 | 109.3 | 89.31 | 46.98 |
| 10.5V | 2393 | 1793 | 1425 | 950.6 | 558.5 | 327.4 | 228.1 | 188.9 | 148.4 | 108.4 | 88.37 | 46.51 |
| 10.8V | 2152 | 1628 | 1309 | 907.3 | 544.7 | 322.6 | 222.6 | 183.9 | 146.1 | 106.0 | 87.44 | 46.05 |
| 11.1V | 1858 | 1445 | 1169 | 850.2 | 516.1 | 307.7 | 211.5 | 175.1 | 138.7 | 102.3 | 84.65 | 44.19 |

All mentioned values are average values.