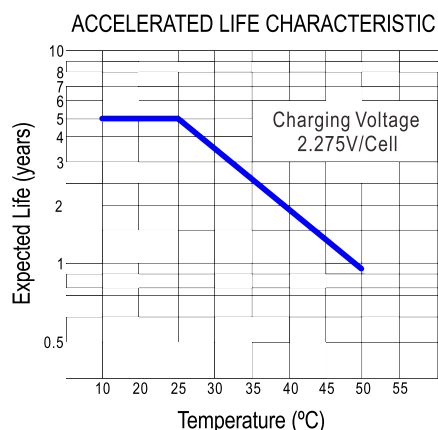


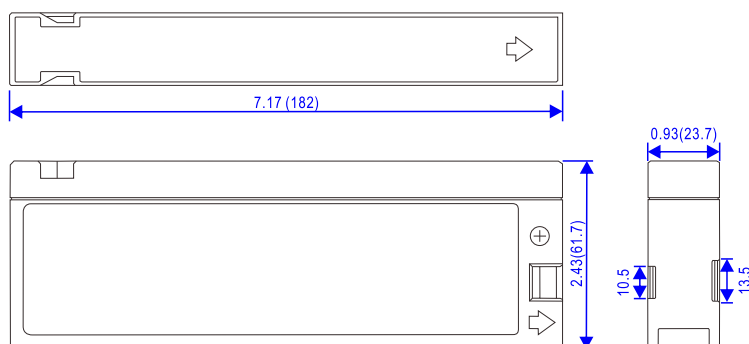
| Type                |                                                        |                   |
|---------------------|--------------------------------------------------------|-------------------|
| Rated Voltage       | 12V                                                    |                   |
| Rated Capacity      | 2.3AH (20HR)                                           |                   |
| Dimension           | Length                                                 | 182±1mm (7.17in)  |
|                     | Width                                                  | 23.7±1mm (0.93in) |
|                     | Height                                                 | 61.7±1mm (2.43in) |
|                     | Total Height                                           | 61.7±1mm (2.43in) |
| Weight              | 0.725kg (1.595Pounds)                                  |                   |
| Container Material  | ABS,UL 94V-0 Resist acid, resist oil, resist vibration |                   |
| Type of electrolyte | AGM Non-spillable                                      |                   |



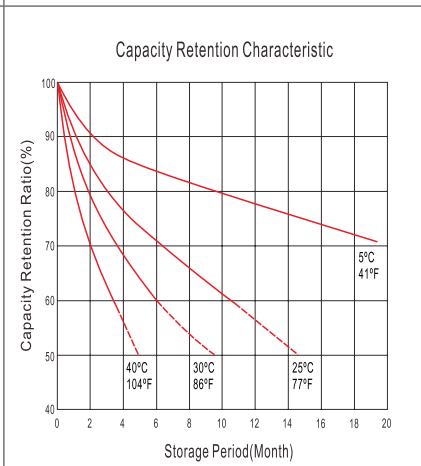
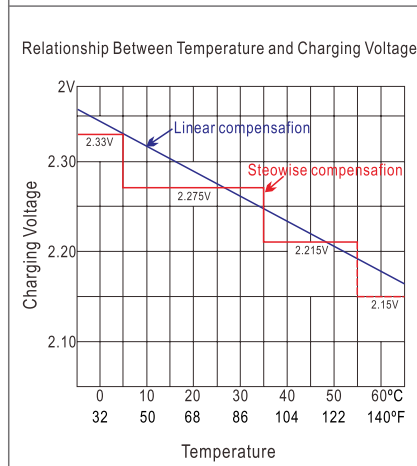
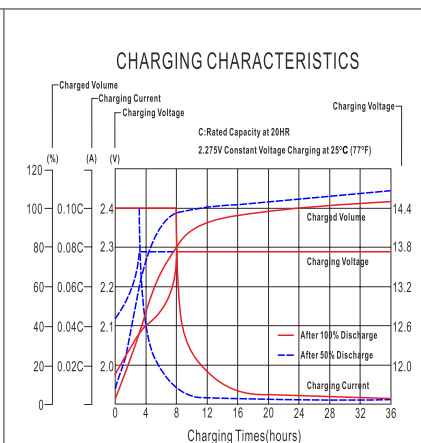
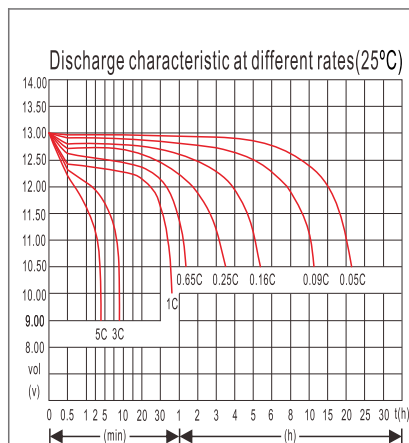
| Performance                                  |                          |                                                          |                         |                     |
|----------------------------------------------|--------------------------|----------------------------------------------------------|-------------------------|---------------------|
| Capacity 25°C(77°F)                          | 20HR of 115mA to 9.60V   | 2.300AH                                                  |                         |                     |
|                                              | 5HR of 365mA to 9.60V    | 1.825AH                                                  |                         |                     |
|                                              | 1HR of 1435mA to 9.60V   | 1.435AH                                                  |                         |                     |
|                                              | 0.5HR of 2440mA to 9.60V | 1.220AH                                                  |                         |                     |
| Internal Resistance                          | Full Charge -15°C(5°F)   | Approx. 140±10mΩ                                         | Full Charge 20°C(68°F)  | Approx. 100±10mΩ    |
|                                              | Full Charge -5°C(23°F)   | Approx. 120±10mΩ                                         | Full Charge 25°C(77°F)  | Approx. 95±10mΩ     |
|                                              | Full Charge 0°C(32°F)    | Approx. 115±10mΩ                                         | Full Charge 35°C(95°F)  | Approx. 90±10mΩ     |
|                                              | Full Charge 5°C(41°F)    | Approx. 110±10mΩ                                         | Full Charge 45°C(113°F) | Approx. 85±10mΩ     |
|                                              | Full Charge 15°C(59°F)   | Approx. 105±10mΩ                                         |                         |                     |
| The capacity will be effected by temperature | 40°C(104°F)              | 105% (20HR to 2.41AH)                                    |                         |                     |
|                                              | 25°C(77°F)               | 100% (20HR to 2.30AH)                                    |                         |                     |
|                                              | 0°C(32°F)                | 85% (20HR to 1.95AH)                                     |                         |                     |
|                                              | -20°C(-4°F)              | 60% (20HR to 1.38AH)                                     |                         |                     |
| Self-discharge 25°C(77°F)                    | 1 months, 97% left       | 3 months, 91% left                                       | 6 months, 85% left      | 12 months, 64% left |
| Max Discharge Current                        | 23.0A(10CA)              |                                                          |                         |                     |
| Max Short Duration Discharge Current         |                          | 34.5A(15CA)                                              |                         |                     |
| Float Charging                               |                          | Voltage                                                  | 13.65±0.15V 25°C(77°F)  |                     |
|                                              |                          | Current                                                  | 0.69A (0.3CA)           |                     |
| Cyclic Charging                              | 6 to 15 hours            | Voltage                                                  | 14.85±0.15V 25°C(77°F)  |                     |
|                                              |                          | Current                                                  | 0.69A (0.3CA)           |                     |
| Operation Temperature Range                  |                          | Charge: -10~40°C(14~104°F) Discharge: -20~50°C(-4~122°F) |                         |                     |
| Expected Life (25°C/77°F)                    |                          | 5 Years                                                  |                         |                     |



Unit: Inch (mm)



| F.V.            | Time | Minutes |       |       |       |       |       |       |       |       |       | Hours |       |       |       |       |       |       |       |
|-----------------|------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 | Item | 1       | 5     | 10    | 15    | 20    | 25    | 30    | 35    | 40    | 45    | 1     | 2     | 3     | 4     | 5     | 8     | 10    | 20    |
| 1.60<br>(9.60)  | A    | 9.760   | 6.190 | 4.570 | 3.710 | 3.260 | 2.725 | 2.440 | 2.215 | 2.050 | 1.865 | 1.435 | 0.820 | 0.575 | 0.450 | 0.365 | 0.238 | 0.207 | 0.115 |
|                 | W    | 102.5   | 65.01 | 48.00 | 40.82 | 35.85 | 31.35 | 28.05 | 25.46 | 23.58 | 21.45 | 16.50 | 9.59  | 6.72  | 5.28  | 4.38  | 2.86  | 2.51  | 1.38  |
| 1.65<br>(9.90)  | A    | 8.590   | 5.680 | 4.220 | 3.485 | 3.035 | 2.585 | 2.295 | 2.090 | 1.925 | 1.760 | 1.405 | 0.810 | 0.565 | 0.440 | 0.360 | 0.233 | 0.200 | 0.113 |
|                 | W    | 90.19   | 59.62 | 44.34 | 38.34 | 33.37 | 29.70 | 26.40 | 24.05 | 22.16 | 20.27 | 16.03 | 9.47  | 6.64  | 5.16  | 4.33  | 2.80  | 2.46  | 1.35  |
| 1.70<br>(10.20) | A    | 7.790   | 5.455 | 3.915 | 3.280 | 2.850 | 2.460 | 2.215 | 2.010 | 1.825 | 1.720 | 1.390 | 0.790 | 0.555 | 0.425 | 0.350 | 0.228 | 0.193 | 0.107 |
|                 | W    | 81.80   | 57.26 | 41.11 | 36.08 | 31.34 | 28.29 | 25.46 | 23.10 | 20.98 | 19.80 | 15.56 | 9.23  | 6.48  | 4.98  | 4.23  | 2.74  | 2.31  | 1.28  |
| 1.75<br>(10.50) | A    | 6.830   | 5.165 | 3.590 | 3.055 | 2.705 | 2.355 | 2.155 | 1.930 | 1.765 | 1.640 | 1.380 | 0.750 | 0.520 | 0.405 | 0.330 | 0.223 | 0.185 | 0.103 |
|                 | W    | 71.68   | 54.24 | 37.67 | 33.60 | 29.77 | 27.11 | 24.75 | 22.16 | 20.27 | 18.86 | 15.32 | 8.75  | 6.08  | 4.74  | 3.99  | 2.68  | 2.21  | 1.23  |
| 1.80<br>(10.80) | A    | 6.050   | 4.675 | 3.260 | 2.790 | 2.480 | 2.235 | 2.005 | 1.845 | 1.680 | 1.600 | 1.320 | 0.720 | 0.510 | 0.395 | 0.325 | 0.215 | 0.180 | 0.100 |
|                 | W    | 63.50   | 49.08 | 34.22 | 30.67 | 27.29 | 25.70 | 23.10 | 21.22 | 19.33 | 18.39 | 14.85 | 8.39  | 6.00  | 4.62  | 3.89  | 2.58  | 2.16  | 1.21  |
| 1.83<br>(10.98) | A    | 5.640   | 4.305 | 2.585 | 2.400 | 2.070 | 1.905 | 1.785 | 1.600 | 1.435 | 1.375 | 1.230 | 0.710 | 0.485 | 0.375 | 0.305 | 0.210 | 0.168 | 0.094 |
|                 | W    | 59.19   | 45.20 | 27.12 | 26.38 | 22.78 | 21.92 | 20.50 | 18.39 | 16.50 | 15.80 | 14.15 | 8.27  | 5.68  | 4.38  | 3.64  | 2.52  | 2.02  | 1.13  |



#### Application:

- ☆ Broadcast television systems
- ☆ Telecom and UPS systems
- ☆ Communication back-up systems
- ☆ Solar storage power systems
- ☆ Power systems
- ☆ Forklift, elevator systems
- ☆ Emergency lighting
- ☆ Fire and security systems
- ☆ Camcorders
- ☆ Medical equipment

#### Stabilities:

- ☆ Positive, negative's plates are all Calcium-Lead alloy.
- ☆ The plastic material is fire-resistance ABS or same grade of UL 94V-0 L.O.I >28%

#### Polarities:

- ☆ The polarities adopted Antimony-Lead alloy or copper alloy covered with Lead material.

#### Seal construction:

- ☆ Non-spillable, no leaking danger, the gas escape rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is high than 98%