



### Applications

- > Electric vehicle / Golf trolley and golf cart
- > Lawn mowers / Wheelchairs
- > Electric toys/ Electric tools
- > Lawn mowers / Sweeper
- > illumination light
- > Other general purpose

### Specification

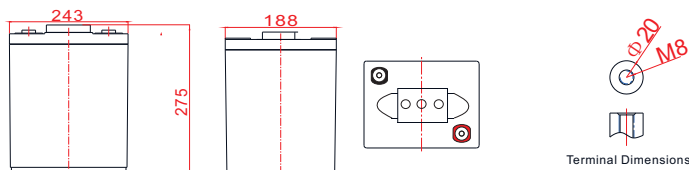
|                                          |                                                   |
|------------------------------------------|---------------------------------------------------|
| Nominal Voltage                          | 6V                                                |
| Nominal Capacity                         | 235Ah                                             |
| Design life                              | 10 years                                          |
| Terminal                                 | M8                                                |
| Approx. Weight                           | Approx 31.7kg (69.87lbs)                          |
| Container Material                       | ABS                                               |
| Rated Capacity                           | <b>235.0Ah</b> 20Hour Rate (11.8A to 5.25V)       |
|                                          | <b>181Ah</b> 3Hour Rate (60.5A to 5.25V)          |
|                                          | <b>151Ah</b> 1Hour Rate (151A to 4.80V)           |
| Internal resistance                      | Full charged at 25°C: 1.8 mΩ                      |
| Max. Discharge Current                   | 2700A(5S)                                         |
| Operating Temperature                    | Discharge: -40 ~60°C (-40~ 140°F)                 |
|                                          | Charge: -20 ~50°C (-4~ 122°F)                     |
|                                          | Storage: -20 ~50°C (-4~ 122°F)                    |
| Charge current: Max. 56.3A ; Recom.23.5A |                                                   |
| Charge Method (25 °C)                    | Float Charge:6.75-6.90V,recom.6.75V/(-9mV/ °C)    |
|                                          | Equalize charge:6.90-7.05V,recom.7.05V(-24mV/ °C) |
|                                          | Cycle charge:7.20-7.50V,recom.7.20V(-30mV/ °C)    |
| Self discharge                           | 3% of capacity declined per month at 25°C         |

### General Features

- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology
- > Long life



Dimension:243(L)×188(W) ×275(H) ×275(TH) Unit: mm



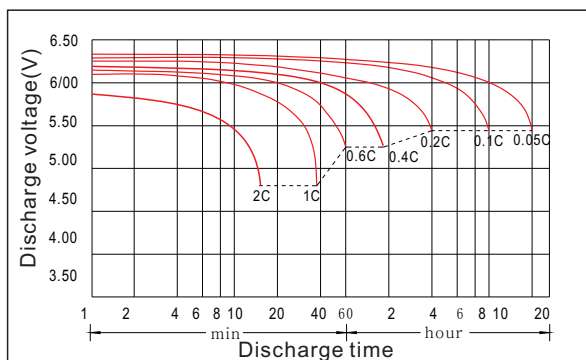
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 5min | 15min | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-----|------|------|------|------|------|------|
| 1.60V   | 793  | 425   | 259   | 152 | 86.9 | 63.0 | 42.5 | 27.8 | 23.4 | 12.5 |
| 1.65V   | 768  | 413   | 255   | 150 | 86.3 | 62.4 | 41.9 | 27.6 | 23.2 | 12.1 |
| 1.70V   | 737  | 405   | 250   | 150 | 85.8 | 61.6 | 41.3 | 27.3 | 23.0 | 11.9 |
| 1.75V   | 678  | 391   | 248   | 147 | 84.4 | 60.8 | 41.1 | 27.1 | 22.7 | 11.8 |
| 1.80V   | 608  | 366   | 237   | 143 | 83.0 | 60.5 | 39.9 | 26.9 | 22.5 | 11.8 |
| 1.85V   | 543  | 326   | 217   | 133 | 78.8 | 56.8 | 38.0 | 25.8 | 21.8 | 11.7 |

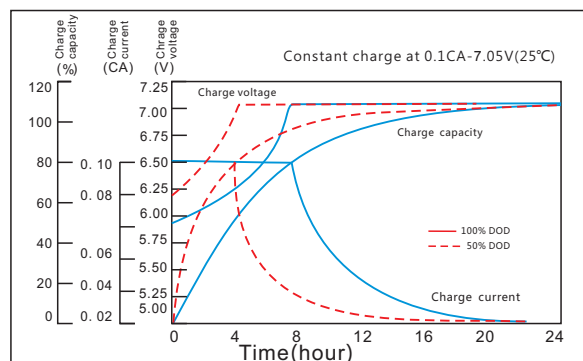
### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

| FV/Time | 5min | 15min | 30min | 1h  | 2h  | 3h  | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-----|-----|-----|------|------|------|------|
| 1.60V   | 1330 | 751   | 470   | 287 | 164 | 120 | 80.2 | 54.0 | 45.0 | 24.3 |
| 1.65V   | 1280 | 737   | 464   | 284 | 164 | 118 | 79.9 | 53.4 | 44.4 | 24.2 |
| 1.70V   | 1271 | 728   | 464   | 281 | 163 | 118 | 79.0 | 53.4 | 44.2 | 24.1 |
| 1.75V   | 1187 | 723   | 461   | 280 | 162 | 117 | 78.8 | 52.9 | 43.6 | 24.0 |
| 1.80V   | 1088 | 683   | 450   | 278 | 162 | 117 | 77.9 | 52.6 | 43.3 | 23.9 |
| 1.85V   | 973  | 610   | 413   | 258 | 155 | 111 | 74.3 | 50.6 | 42.5 | 23.6 |

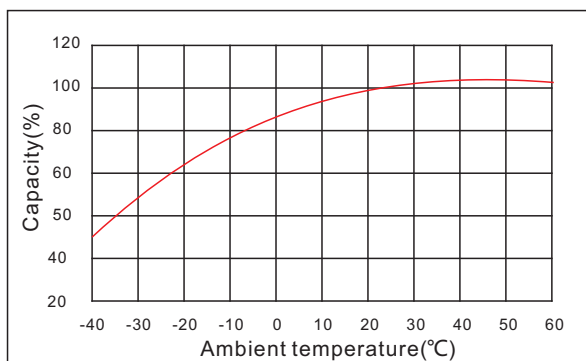
Discharge characteristic



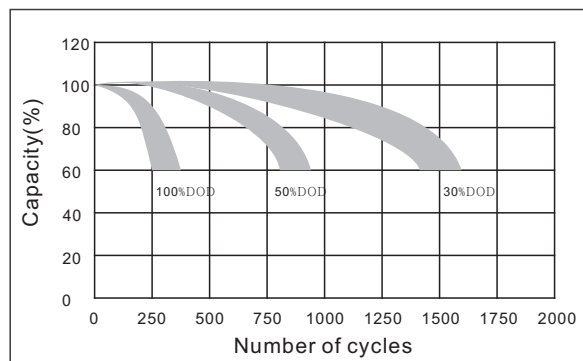
Charging characteristic



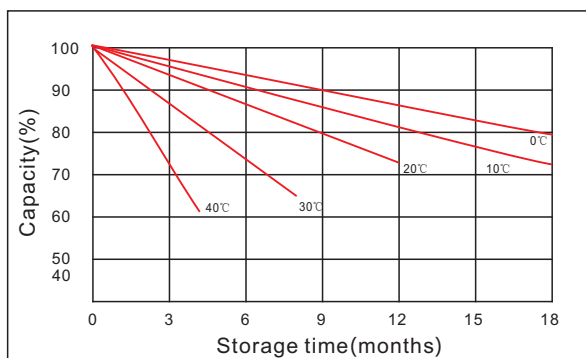
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

