

# Qoltec®

Product name: AGM Battery

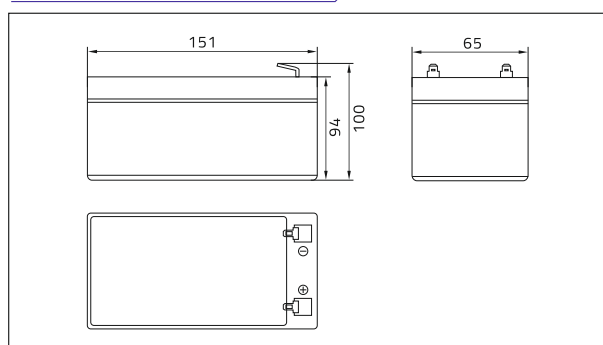
Trade name: AGM battery | 12V | 7.2Ah

Model: 53062

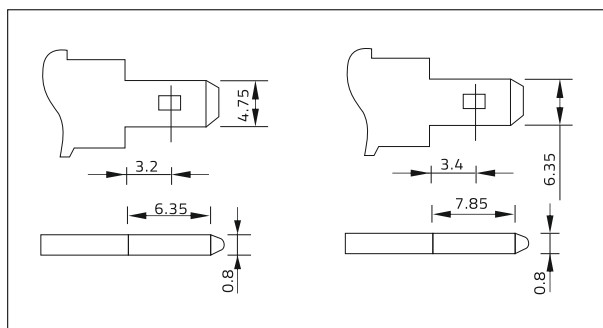
## Specifications

|                               |              |                     |
|-------------------------------|--------------|---------------------|
| Nominal Voltage               |              | 12V                 |
| Rated capacity (20 hour rate) |              | 7.2Ah               |
| Dimensions                    | Length       | 151±1.5mm(5.94inch) |
|                               | Width        | 65±1mm(2.56inch)    |
|                               | Height       | 94±1mm(3.70inch)    |
|                               | Total Height | 100±1mm(3.94inch)   |
| Approx. Weight                |              | 2.1kg(4.63lbs)±4%   |

## Outer dimensions (mm)



## Terminal Type (mm)



## Construction

| Component    | Positive plate | Negative plate | Container | Cover | Separator | Electrolyte   | Safety valve | Terminal |
|--------------|----------------|----------------|-----------|-------|-----------|---------------|--------------|----------|
| Raw material | Lead dioxide   | Lead           | ABS       | ABS   | AGM       | Sulfuric acid | Rubber       | Copper   |

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

| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V    | 26.7 | 16.9  | 13.2  | 7.46  | 4.59  | 2.51 | 1.74 | 1.44 | 1.22 | 0.66 | 0.36 |
| 9.90V    | 25.9 | 16.4  | 12.9  | 7.31  | 4.52  | 2.49 | 1.72 | 1.43 | 1.21 | 0.66 | 0.35 |
| 10.2V    | 24.9 | 15.8  | 12.4  | 7.08  | 4.40  | 2.47 | 1.71 | 1.42 | 1.21 | 0.66 | 0.35 |
| 10.5V    | 23.8 | 15.1  | 12.0  | 6.91  | 4.31  | 2.43 | 1.70 | 1.41 | 1.20 | 0.65 | 0.35 |
| 10.8V    | 22.5 | 14.2  | 11.4  | 6.66  | 4.18  | 2.37 | 1.65 | 1.36 | 1.16 | 0.64 | 0.34 |

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

| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V    | 298  | 191   | 151   | 85.4  | 53.1  | 29.3 | 20.6 | 17.1 | 14.6 | 7.95 | 4.26 |
| 9.90V    | 289  | 185   | 147   | 83.7  | 52.3  | 29.2 | 20.5 | 17.0 | 14.5 | 7.92 | 4.25 |
| 10.2V    | 278  | 178   | 142   | 81.2  | 51.0  | 28.9 | 20.3 | 16.9 | 14.4 | 7.88 | 4.23 |
| 10.5V    | 266  | 170   | 137   | 79.2  | 50.0  | 28.5 | 20.2 | 16.8 | 14.3 | 7.84 | 4.20 |
| 10.8V    | 251  | 161   | 130   | 76.3  | 48.4  | 27.8 | 19.6 | 16.3 | 13.9 | 7.68 | 4.12 |

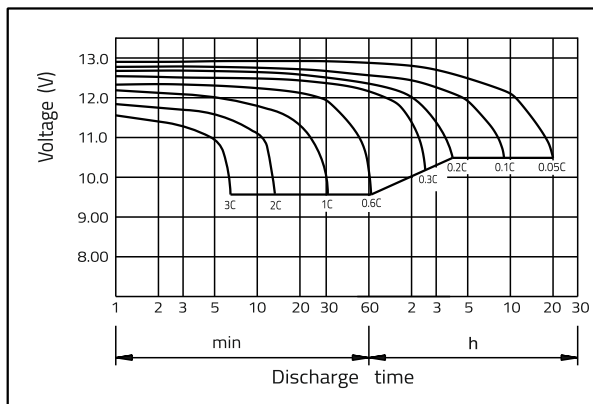
Note: The above characteristics data can be obtained within three charge or discharge cycles.



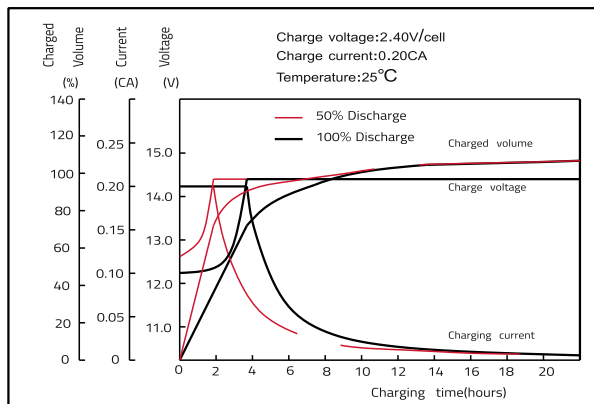
## Characteristics

|                                           |             |                                                    |
|-------------------------------------------|-------------|----------------------------------------------------|
| Capacity (25°C)                           | 20HR(10.5V) | 7.2Ah                                              |
|                                           | 10HR(10.5V) | 6.5Ah                                              |
|                                           | 1HR(9.60V)  | 4.2Ah                                              |
| Terminal type                             |             | T1/T2                                              |
| Internal resistance (Fully charged, 25°C) |             | Approx. 25mΩ                                       |
| Capacity affected by temperature (20HR)   | 40°C        | 102%                                               |
|                                           | 25°C        | 100%                                               |
|                                           | 0°C         | 85%                                                |
|                                           | -15°C       | 65%                                                |
| Self-discharge (25°C)                     | 3month      | Remaining Capacity: 91%                            |
|                                           | 6month      | Remaining Capacity: 82%                            |
|                                           | 12month     | Remaining Capacity: 65%                            |
| Nominal operating temperature             |             | 25°C ± 3°C (77°F ± 5°F)                            |
| Operating temperature range               | Discharge   | -15°C ~ 50°C (5°F ~ 122°F)                         |
|                                           | Charge      | -10°C ~ 50°C (14°F ~ 122°F)                        |
|                                           | Storage     | -20°C ~ 50°C (-4°F ~ 122°F)                        |
| Float charging voltage (25°C)             |             | 13.60 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage (25°C)            |             | 14.50 to 15.00V Temperature compensation: -30mV/°C |
| Maximum charging current                  |             | 2.1A                                               |
| Maximum discharge current                 |             | 105A (5 sec.)                                      |
| Designed floating life (20°C)             |             | 5 years                                            |

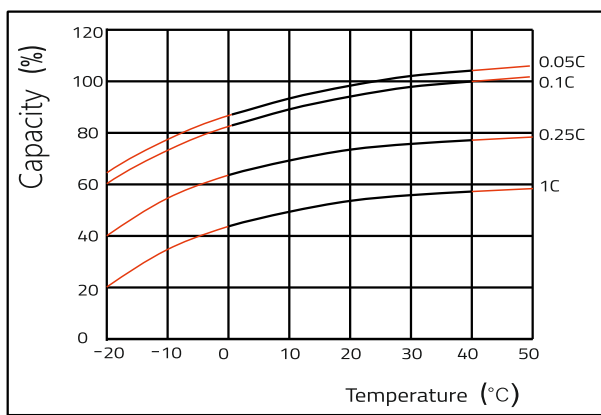
## ● Discharge characteristics(25°C)



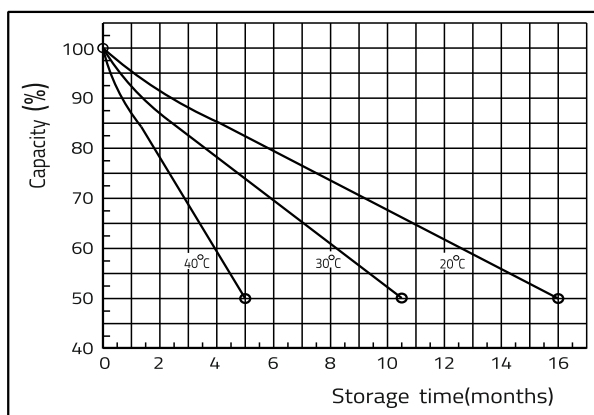
## ● Charging characteristics (25°C)



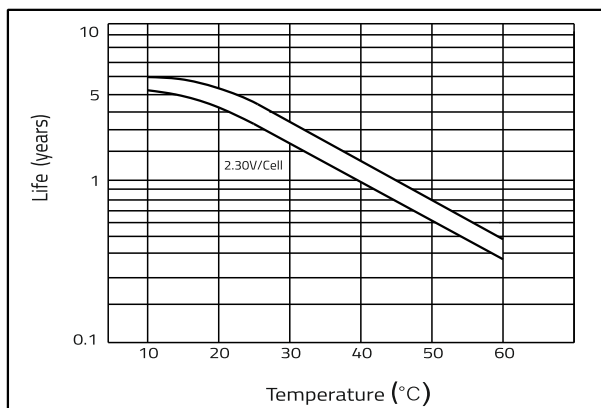
## ● Effect of temperature on capacity



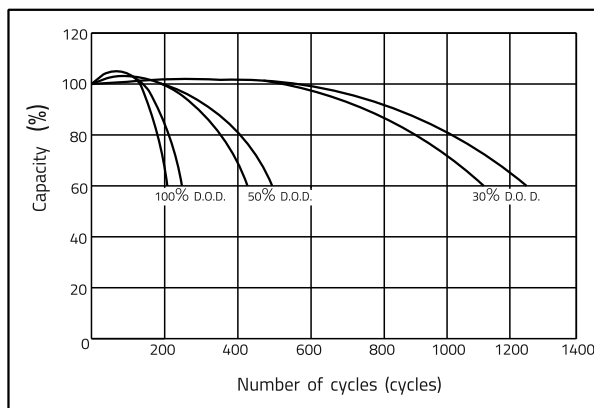
## ● Self-discharge characteristics



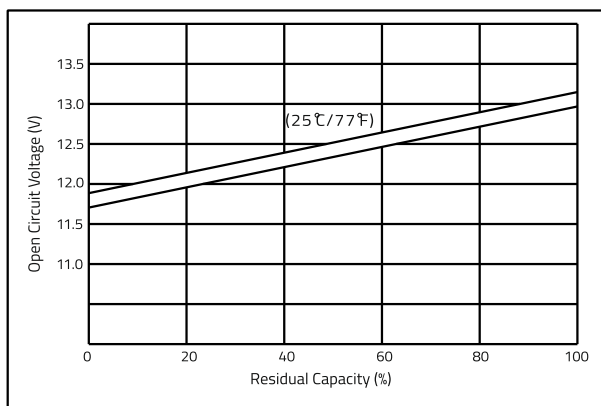
## ● Floating life on temperature



## ● Cycle life on D.O.D(25°C)



## ● The relationship for OCV and Capacity (25°C)



## ● The relationship for Charging voltage and Temperature

