

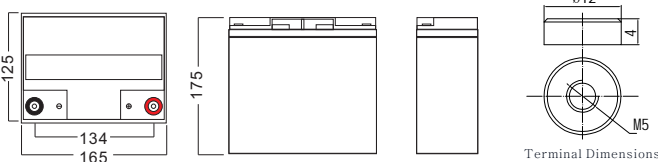


## General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology
- > Long life



Dimension: 165(L)×125(W)×175(H)×175(TH) Unit: mm



## Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

## Specification

|                                 |   |
|---------------------------------|---|
| Nominal Voltage                 | 12V   |
| Nominal Capacity                | 24Ah  |
| Design life                     | 10 years  |
| Terminal                        | M5  |
| Approx. Weight                  | Approx 8.8kg (19.4lbs)                          |
| Container Material              | ABS   |
| Rated Capacity                  | <b>24.0Ah</b> 20Hour Rate (1.20A to 10.5V)      |
|                                 | <b>17.1Ah</b> 3Hour Rate (5.71A to 10.2V)       |
|                                 | <b>13.3Ah</b> 1Hour Rate (13.3A to 9.6V)        |
| Internal resistance             | Full charged at 25°C: 11.0 mΩ                   |
| Max. Discharge Current          | 288A(5S)  |
| Operating Temperature           | Discharge: -20 ~50°C(-4 ~ 122°F)                |
|                                 | Charge: -20 ~50°C(-4 ~ 122°F)                   |
|                                 | Storage: -20 ~50°C(-4 ~ 122°F)                  |
| Charge current:                 | Max. 6.0A ; Recom.2.4A                          |
| Float Charge voltage(-3mV/°C) : | 13.5-13.8V, recom.13.8V(Full floating system)   |
| Charge Method (25°C)            | Equalize charge:13.8-14.1V,recom.14.1V(-4mV/°C) |
|                                 | Cycle charge:14.4-15.0V,recom.14.7V(-6mV/°C)    |
| Self discharge                  | 3% of capacity declined per month at 25°C       |

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

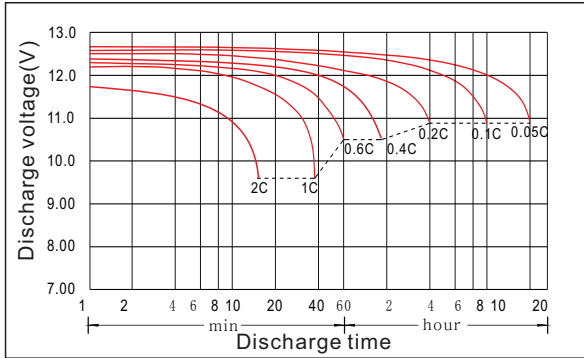
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 57.0 | 46.1  | 30.9  | 19.7  | 16.3  | 13.3 | 9.67 | 8.46 | 5.94 | 4.64 | 4.04 | 3.43 | 2.66 | 2.38 | 1.30 |
| 1.65V   | 56.0 | 45.3  | 30.3  | 19.3  | 16.0  | 13.0 | 9.48 | 8.29 | 5.83 | 4.55 | 3.97 | 3.36 | 2.61 | 2.33 | 1.27 |
| 1.70V   | 54.9 | 44.5  | 29.7  | 19.0  | 15.7  | 12.8 | 9.32 | 8.17 | 5.71 | 4.47 | 3.89 | 3.30 | 2.57 | 2.29 | 1.25 |
| 1.75V   | 53.9 | 43.7  | 29.2  | 18.6  | 15.4  | 12.6 | 9.13 | 8.00 | 5.62 | 4.38 | 3.82 | 3.24 | 2.51 | 2.25 | 1.20 |
| 1.80V   | 51.8 | 42.0  | 28.1  | 17.9  | 14.8  | 12.1 | 8.78 | 7.71 | 5.40 | 4.21 | 3.67 | 3.11 | 2.42 | 2.16 | 1.14 |
| 1.85V   | 49.4 | 39.4  | 26.5  | 16.6  | 13.9  | 11.3 | 8.18 | 7.26 | 5.15 | 3.92 | 3.51 | 2.90 | 2.30 | 2.01 | 1.06 |

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

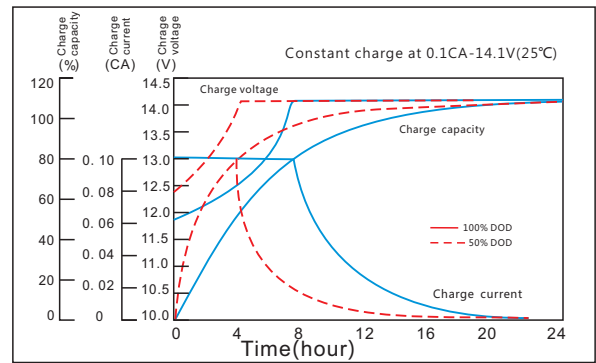
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V   | 110  | 79.9  | 59.4  | 37.9  | 30.7  | 25.6 | 19.3 | 16.3 | 11.4 | 9.14 | 7.77 | 6.70 | 5.12 | 4.57 | 2.54 |
| 1.65V   | 108  | 78.4  | 58.3  | 37.3  | 30.2  | 25.1 | 19.0 | 16.0 | 11.3 | 8.98 | 7.66 | 6.59 | 5.03 | 4.49 | 2.50 |
| 1.70V   | 106  | 76.8  | 57.3  | 36.6  | 29.6  | 24.6 | 18.6 | 15.7 | 11.0 | 8.81 | 7.49 | 6.46 | 4.94 | 4.41 | 2.45 |
| 1.75V   | 104  | 75.4  | 56.2  | 35.9  | 29.0  | 24.2 | 18.3 | 15.4 | 10.8 | 8.65 | 7.37 | 6.34 | 4.85 | 4.33 | 2.40 |
| 1.80V   | 99.8 | 72.6  | 54.0  | 34.5  | 27.9  | 23.3 | 17.6 | 14.8 | 10.4 | 8.32 | 7.09 | 6.10 | 4.66 | 4.16 | 2.31 |
| 1.85V   | 94.6 | 68.6  | 51.2  | 33.4  | 26.4  | 22.0 | 16.7 | 14.2 | 9.77 | 7.92 | 6.69 | 5.81 | 4.42 | 3.96 | 2.20 |

# GY6-EVF-24

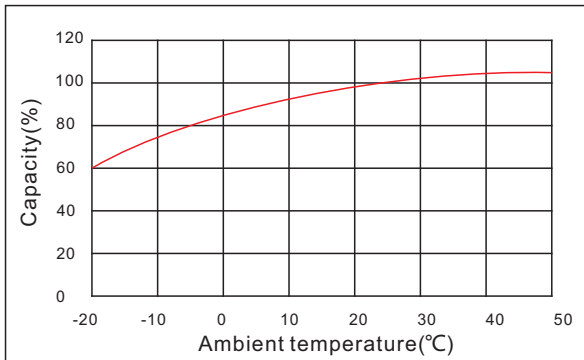
**Discharge characteristic**



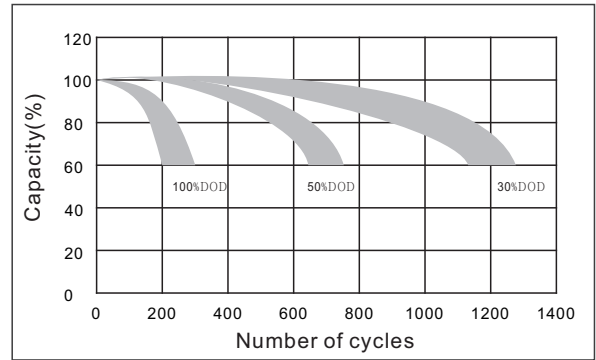
**Charging characteristic**



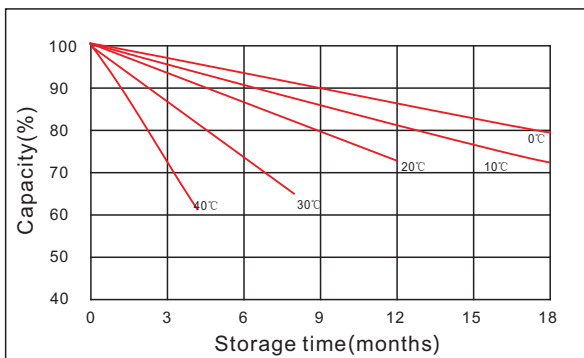
**The effect of temperature on capacity**



**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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