



# GY Series lead-acid battery GY3-EVF-225G



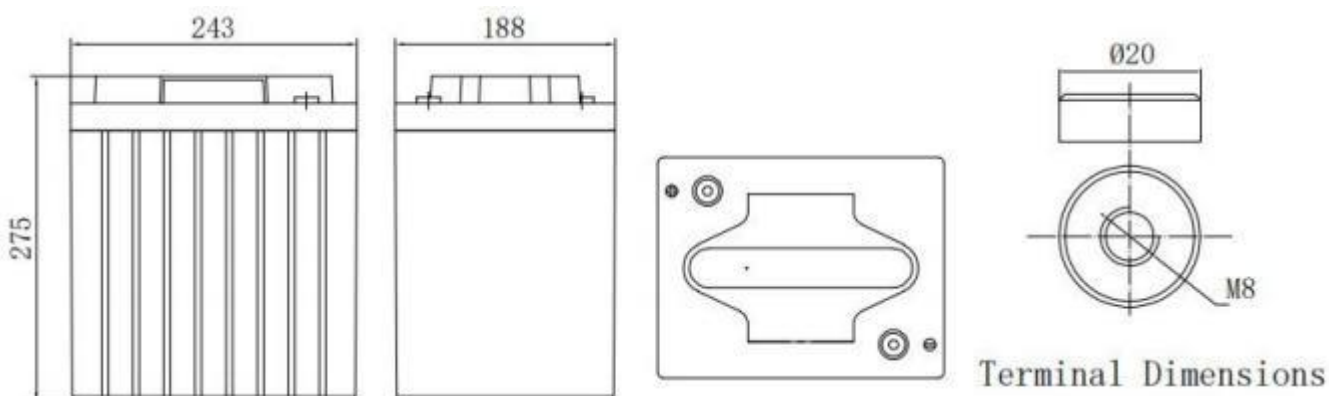
## General Features

- 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: 243(L) × 188(W) × 275(H) × 275(TH) / (±3)

Unit: mm



## Specification

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Nominal Voltage                            | 6V                                       |
| Nominal Capacity                           | 225Ah@20hour-rate to 5.25V @25℃          |
| Design life                                | 10 years                                 |
| Terminal                                   | M8                                       |
| Approx. Weight                             | Approx. 31.7kg±3% (69.9lbs±3%)           |
| Container Material                         | ABS(UL94-V0, UL94-HB optional)           |
| short-circuit current                      | 2608A                                    |
| Internal resistance(Full charged at 25℃: ) | 2.3 mΩ                                   |
| Self discharge                             | 3% of capacity declined per month at 25℃ |

## Operating Temperature

|            |                     |
|------------|---------------------|
| Discharge: | -20 ~50℃(-4~ 122°F) |
| Charge :   | -20 ~50℃(-4~ 122°F) |
| Storage:   | -20 ~50℃(-4~ 122°F) |

## Charge Method(25 °C)

|                             |                          |
|-----------------------------|--------------------------|
| Charge current:             | Max. 56.3A; Recom. 22.5A |
| Float charge: 6.75-6.90V    | recom. 6.90V(-9mV/ °C)   |
| Equalize charge: 6.90-7.05V | recom. 7.05V(-12mV/ °C)  |
| Cycle charge: 7.20-7.50V    | recom. 7.20V(-15mV/ °C)  |

## Standards

Executive standard GB/T 32620.1-2016

## Applications

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

## Rated Capacity

|                               |         |
|-------------------------------|---------|
| 20Hour Rate (11.25A to 5.25V) | 225.0Ah |
| 3Hour Rate (55.9A to 5.10V)   | 167.7Ah |
| 1Hour Rate (132.9A to 4.80V)  | 132.9Ah |

## Attain Certificate



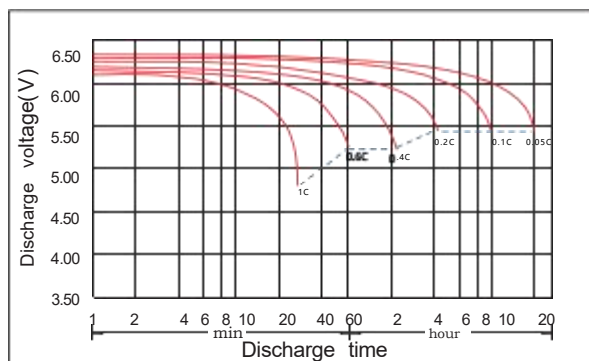
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



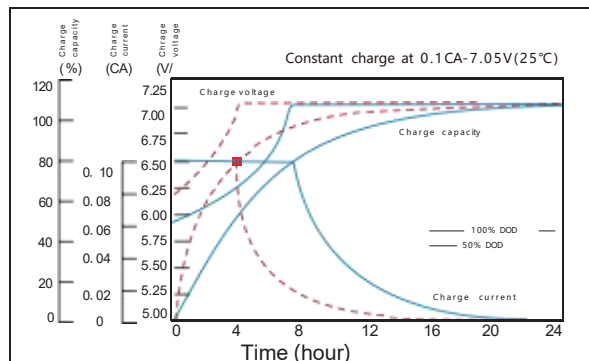
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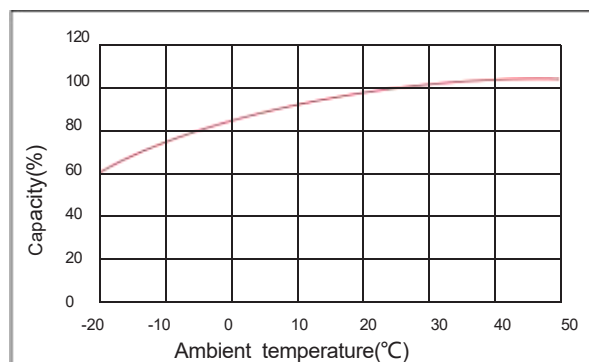
## Discharge characteristic



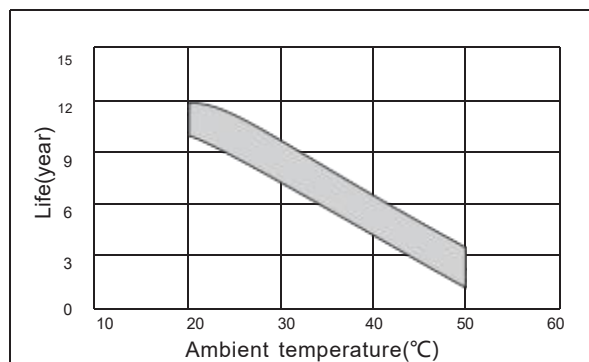
## Charging characteristic



## The effect of temperature on capacity



## The effect of temperature on float life



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

| FV/Time | 15min | 30min | 45min | 1h    | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h   | 20h   |
|---------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|
| 1.60V   | 387.8 | 230.1 | 168.5 | 132.9 | 98.7 | 78.8 | 59.3 | 47.8 | 40.6 | 34.5 | 26.6 | 22.17 | 11.60 |
| 1.65V   | 372.5 | 220.9 | 161.7 | 127.7 | 95.8 | 77.0 | 57.4 | 46.2 | 39.6 | 34.0 | 26.3 | 21.90 | 11.41 |
| 1.70V   | 348.9 | 211.2 | 154.6 | 122.4 | 92.0 | 73.8 | 55.9 | 45.2 | 38.6 | 33.3 | 25.9 | 21.57 | 11.31 |
| 1.75V   | 324.7 | 199.8 | 147.8 | 118.5 | 88.2 | 71.2 | 54.2 | 44.0 | 37.6 | 32.5 | 25.6 | 21.29 | 11.25 |
| 1.80V   | 305.8 | 194.4 | 142.5 | 113.4 | 84.1 | 69.0 | 53.6 | 42.8 | 36.6 | 31.5 | 25.1 | 21.02 | 11.14 |
| 1.85V   | 253.7 | 164.5 | 124.3 | 99.7  | 76.0 | 61.1 | 47.1 | 38.8 | 33.3 | 28.7 | 23.6 | 19.39 | 10.68 |

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

| FV/Time | 15min | 30min | 45min | 1h    | 1.5h  | 2h    | 3h    | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V   | 711.4 | 436.6 | 320.2 | 254.2 | 190.9 | 151.4 | 116.8 | 93.4 | 79.8 | 69.3 | 54.3 | 45.5 | 23.8 |
| 1.65V   | 690.2 | 423.5 | 309.9 | 247.0 | 186.1 | 148.8 | 115.1 | 91.2 | 78.0 | 68.6 | 53.9 | 45.0 | 23.5 |
| 1.70V   | 656.1 | 408.9 | 306.2 | 240.5 | 183.4 | 144.0 | 110.2 | 89.1 | 76.3 | 67.2 | 53.1 | 44.4 | 23.2 |
| 1.75V   | 619.5 | 394.8 | 293.6 | 235.4 | 178.3 | 140.2 | 109.6 | 87.1 | 74.6 | 65.7 | 52.5 | 43.9 | 23.2 |
| 1.80V   | 585.9 | 381.2 | 282.5 | 225.7 | 169.1 | 137.9 | 106.6 | 86.2 | 72.9 | 64.6 | 51.7 | 43.4 | 23.0 |
| 1.85V   | 488.2 | 331.6 | 251.0 | 201.6 | 157.1 | 126.2 | 95.7  | 79.2 | 68.2 | 59.1 | 48.7 | 40.9 | 21.7 |