



# GY Series lead-acid battery GY3-EVF-330D



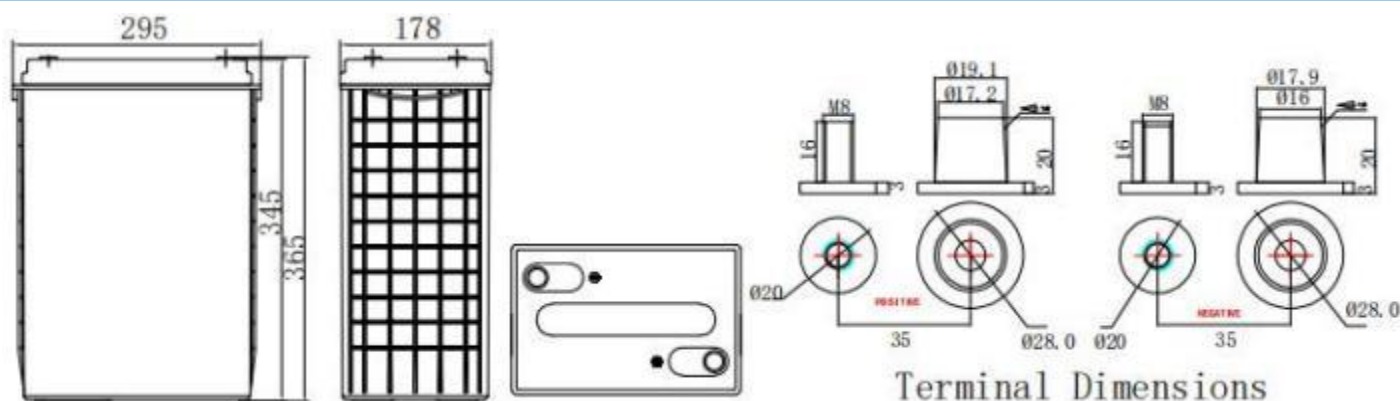
## General Features

- 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: 295(L) × 178(W) × 345(H) × 365(TH) / (±3)

Unit: mm



Terminal Dimensions

## Specification

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Nominal Voltage                             | 6V                                        |
| Nominal Capacity                            | 330Ah@20Hour-rate to 1.75V per cell @25°C |
| Design life                                 | 10 years                                  |
| Terminal                                    | DT                                        |
| Approx. Weight                              | Approx. 47.0kg±3% (103.6lbs±3%)           |
| Container Material                          | ABS(UL94-HB, UL94-V0 optional)            |
| short-circuit current                       | 3333A                                     |
| Internal resistance(Full charged at 25°C: ) | 1.8 mΩ                                    |
| Self discharge                              | 3% of capacity declined per month at 25°C |

## Operating Temperature

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

## Charge Method(25 °C)

|                             |                          |
|-----------------------------|--------------------------|
| Charge current:             | Max. 66.0A; Recom. 33.0A |
| 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 (16.5A to 5.25V) | 330.0Ah |
| 3Hour Rate (87.7A to 5.10V)  | 263.1Ah |
| 1Hour Rate (203A to 4.80V)   | 203.0Ah |

## Attain Certificate



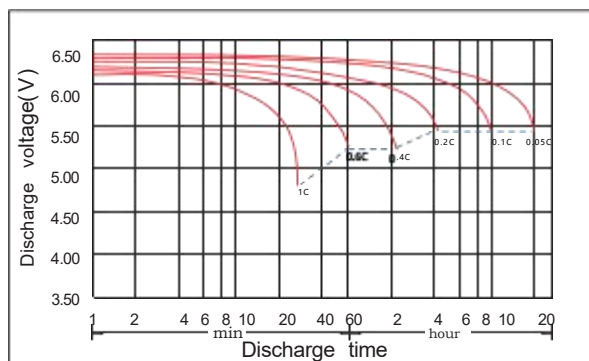
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



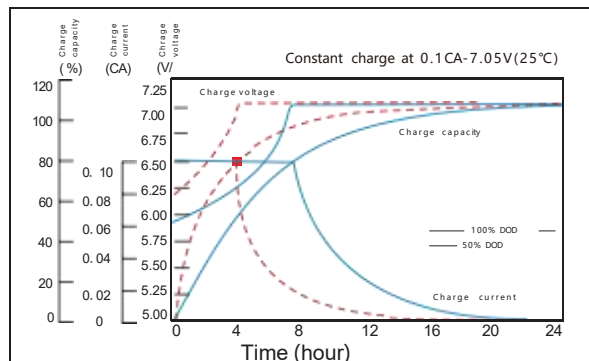
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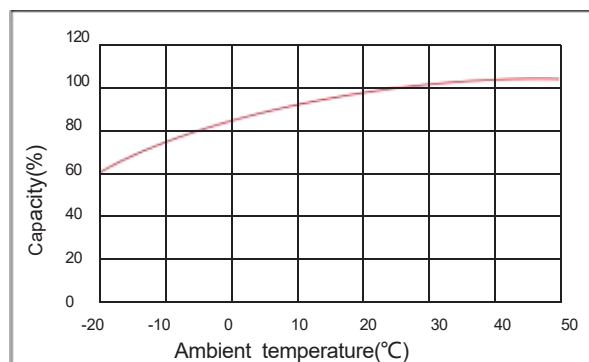
## Discharge characteristic



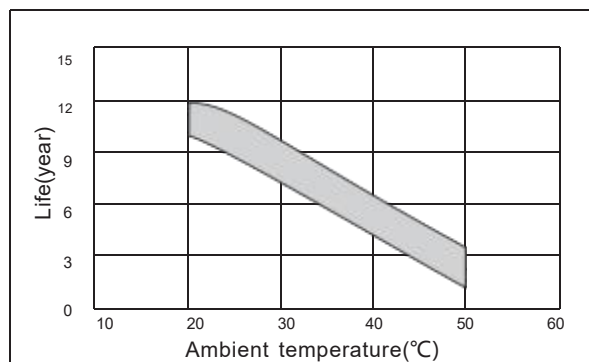
## Charging characteristic



## 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   | 306   | 275   | 256   | 203 | 137  | 126 | 90.1 | 65.3 | 60.5 | 48.3 | 39.8 | 33.5 | 17.2 |
| 1.65V   | 301   | 271   | 253   | 202 | 135  | 124 | 89.3 | 64.6 | 60   | 47.9 | 39.4 | 33.2 | 17   |
| 1.70V   | 289   | 260   | 250   | 200 | 134  | 122 | 87.7 | 64   | 59.4 | 47.4 | 39.1 | 32.8 | 16.7 |
| 1.75V   | 266   | 253   | 248   | 198 | 133  | 121 | 86.9 | 63.5 | 58.8 | 47   | 38.8 | 32.6 | 16.5 |
| 1.80V   | 238   | 235   | 230   | 192 | 131  | 118 | 86.1 | 62.9 | 57.1 | 46.4 | 38.5 | 32.2 | 16.3 |
| 1.85V   | 212   | 201   | 188   | 179 | 127  | 113 | 81.3 | 61   | 54.2 | 45.1 | 36.9 | 31.3 | 15.9 |

### 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   | 520   | 499   | 474   | 352 | 265  | 224 | 157 | 126 | 107  | 92.2 | 70.4 | 62.9 | 35   |
| 1.65V   | 512   | 492   | 468   | 346 | 261  | 220 | 155 | 124 | 105  | 90.6 | 69.1 | 61.8 | 34.3 |
| 1.70V   | 491   | 471   | 462   | 339 | 256  | 216 | 152 | 121 | 103  | 88.8 | 67.9 | 60.6 | 33.6 |
| 1.75V   | 452   | 434   | 419   | 332 | 251  | 211 | 149 | 119 | 101  | 87.2 | 66.6 | 59.5 | 33   |
| 1.80V   | 404   | 388   | 356   | 320 | 241  | 204 | 143 | 114 | 97.4 | 83.9 | 64   | 57.2 | 31.7 |
| 1.85V   | 363   | 348   | 328   | 303 | 230  | 195 | 134 | 109 | 91.9 | 79.9 | 60.8 | 54.5 | 30.3 |