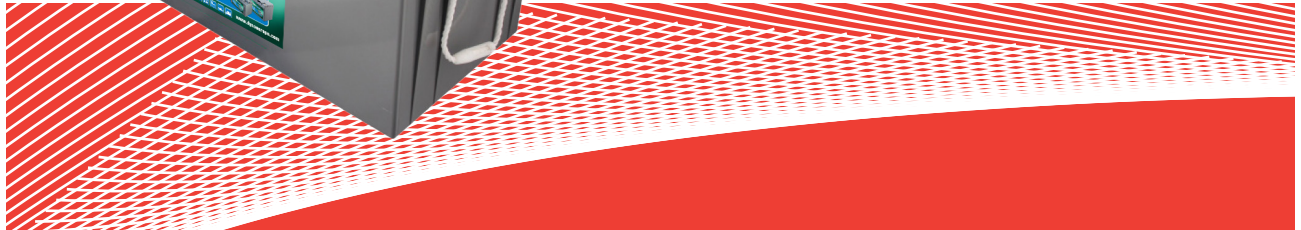


TECHNICAL DATA SHEET

DGY12-200



Applications

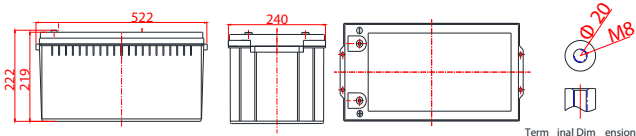
- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting, Auto control system
- › Other general purpose

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: 522(L)×240(W) ×219(H)×222(TH) Unit: mm



Specification

| | |
|------------------------|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 214Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 61.5kg |
| Container Material | ABS |
| Rated Capacity | 203Ah → 10Hour Rate |
| | 160,8Ah → 3Hour Rate |
| | 132Ah → 1Hour Rate |
| Internal resistance | Full charged at 25°C: 3.2 mΩ |
| Max. Discharge Current | 2400A(5S) |
| Operating Temperature | Discharge: -40 ~60 (-40~ 140°F) |
| | Charge : -20 ~50 (-4~ 122°F) |
| | Storage: -20 ~50 (-4~ 122°F) |
| Charge current: | Max.50.0A ; Recom.20.0A |
| Charge Method (25 °C) | Float Charge:13.5-13.8V,recom.13.5V(-18mV/ °C) |
| | Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C) |
| | Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C) |
| Self discharge | 3% of capacity declined per month at 25°C |

TECHNICAL DATA SHEET

DGY12-200

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

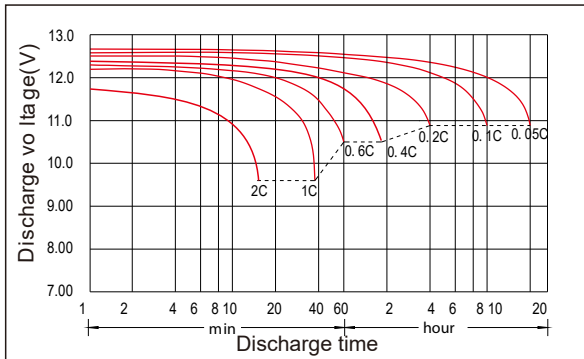
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-----|------|------|------|------|------|------|
| 1.60V | 367 | 223 | 132 | 75.7 | 54.9 | 36.9 | 24.2 | 20.7 | 10.9 |
| 1.65V | 356 | 220 | 131 | 75.3 | 54.4 | 36.5 | 24.0 | 20.5 | 10.8 |
| 1.70V | 348 | 216 | 130 | 74.7 | 53.6 | 36.1 | 23.8 | 20.3 | 10.7 |
| 1.75V | 337 | 214 | 128 | 73.6 | 53.0 | 35.7 | 23.6 | 20.1 | 10.7 |
| 1.80V | 314 | 205 | 125 | 72.2 | 52.6 | 34.8 | 23.4 | 20.0 | 10.6 |
| 1.85V | 280 | 187 | 116 | 68.6 | 49.6 | 33.0 | 22.5 | 19.3 | 10.5 |

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

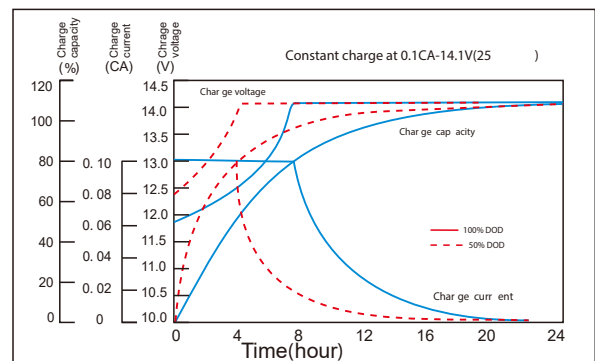
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-----|-----|------|------|------|------|------|
| 1.60V | 647 | 404 | 250 | 143 | 104 | 69.9 | 47.1 | 39.8 | 21.5 |
| 1.65V | 636 | 400 | 248 | 143 | 103 | 69.5 | 46.7 | 39.4 | 21.4 |
| 1.70V | 628 | 400 | 246 | 142 | 103 | 69.0 | 46.5 | 39.0 | 21.3 |
| 1.75V | 624 | 398 | 244 | 141 | 102 | 68.6 | 46.1 | 38.6 | 21.2 |
| 1.80V | 590 | 389 | 242 | 141 | 102 | 67.8 | 45.7 | 38.2 | 21.1 |
| 1.85V | 527 | 357 | 225 | 135 | 96.6 | 64.7 | 44.2 | 37.6 | 20.9 |

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.

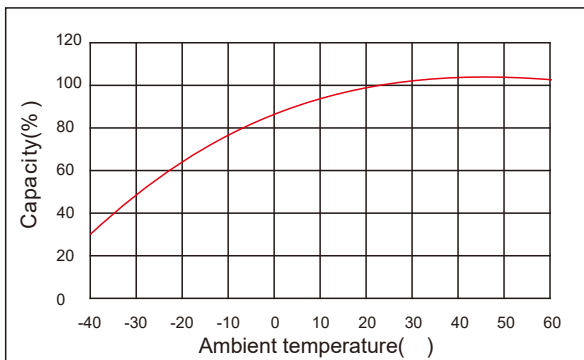
Discharge characteristic



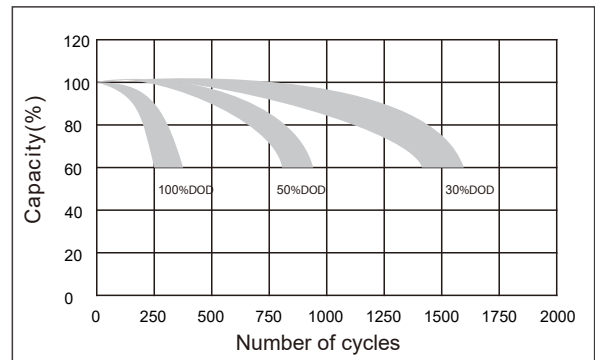
Charging characteristic



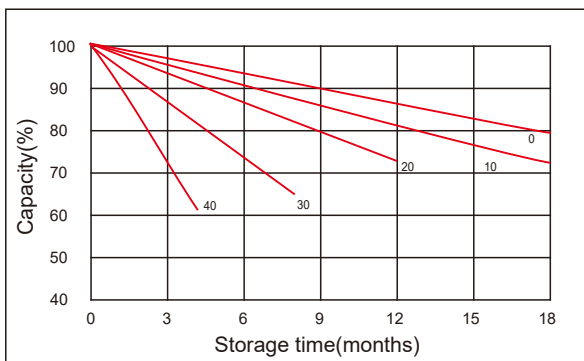
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

