

OPZV2-300

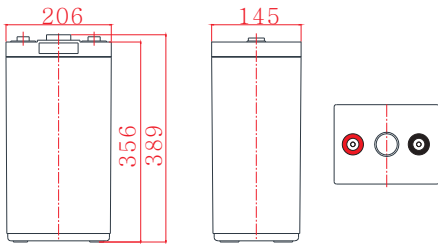


General Features

- > Nanosilica colloidal electrolyte and tubular plate design to enhance battery performance
- > Tubular plate design makes long battery life
- > 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



Dimension: 145(L)×206(W)×356(H)×389(TH) Unit: mm



Terminal Dimensions

Applications

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

Specification

| | | |
|------------------------|--------------------------------------------------|------------------------------|
| Nominal Voltage | 2V | |
| Nominal Capacity | 300Ah | |
| Design life | 20 years | |
| Terminal | M8 | |
| Approx. Weight | Approx 26.5kg (58.4lbs) | |
| Container Material | ABS | |
| Rated Capacity | 300Ah | 10Hour Rate (30.0A to 1.80V) |
| | 227Ah | 3Hour Rate (75.6A to 1.80V) |
| | 167Ah | 1Hour Rate (167A to 1.75V) |
| Internal resistance | Full charged at 25°C: 0.62 mΩ | |
| Max. Discharge Current | 2400A(5S) | |
| Operating Temperature | Discharge: -40 ~60°C(-40~ 140°F) | |
| | Charge: -20 ~50°C(-4~ 122°F) | |
| | Storage: -20 ~50°C(-4~ 122°F) | |
| Charge current: | Max.60A ; Recom.30A | |
| Charge Method (25 °C) | Float Charge:2.23-2.27V,recom.2.25V(-3mV/ °C) | |
| | Equalize charge:2.30-2.35V,recom.2.35V(-4mV/ °C) | |
| | Cycle charge:2.40-2.50V,recom.2.40V(-5mV/ °C) | |
| Self discharge | 3% of capacity declined per month at 25°C | |

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

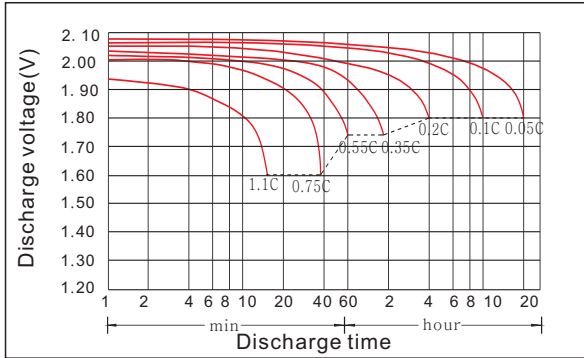
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-----|------|------|------|------|------|------|
| 1.60V | 328 | 262 | 182 | 112 | 80.4 | 55.2 | 38.8 | 31.8 | 17.0 |
| 1.65V | 313 | 250 | 179 | 110 | 79.4 | 54.4 | 38.2 | 31.6 | 16.9 |
| 1.70V | 297 | 235 | 172 | 107 | 78.2 | 53.4 | 37.6 | 31.0 | 16.6 |
| 1.75V | 280 | 219 | 167 | 104 | 77.0 | 52.2 | 37.2 | 30.6 | 16.4 |
| 1.80V | 252 | 201 | 156 | 101 | 75.6 | 50.8 | 36.4 | 30.0 | 16.0 |
| 1.85V | 213 | 179 | 146 | 97.0 | 72.6 | 49.0 | 35.4 | 29.4 | 15.6 |

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

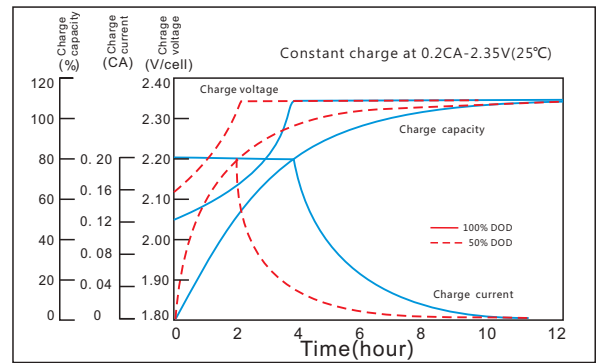
| FV/Time | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|---------|-------|-------|-----|-----|-----|-----|------|------|------|
| 1.60V | 655 | 520 | 353 | 220 | 169 | 113 | 81.0 | 67.2 | 36.0 |
| 1.65V | 625 | 495 | 335 | 217 | 165 | 112 | 79.6 | 64.4 | 35.2 |
| 1.70V | 597 | 474 | 325 | 213 | 160 | 109 | 78.0 | 64.2 | 34.4 |
| 1.75V | 565 | 453 | 314 | 208 | 156 | 106 | 76.2 | 63.0 | 33.6 |
| 1.80V | 537 | 436 | 315 | 201 | 151 | 103 | 74.2 | 61.4 | 32.8 |
| 1.85V | 493 | 413 | 289 | 191 | 144 | 98 | 71.4 | 59.6 | 31.8 |

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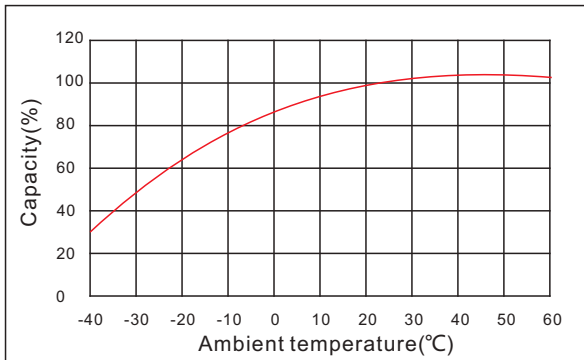
Discharge characteristic



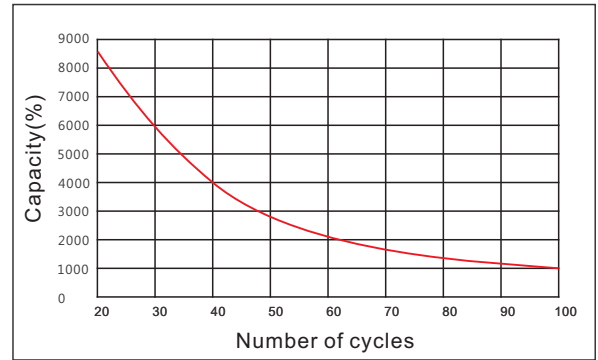
Charging characteristic



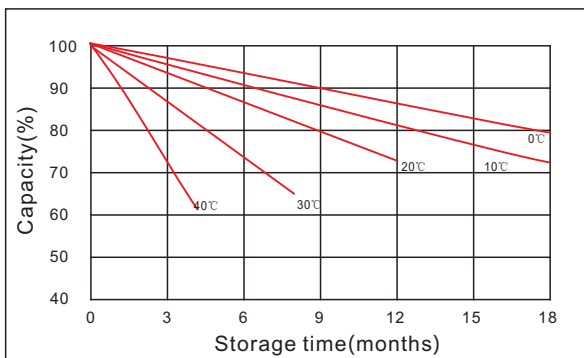
The effect of temperature on capacity



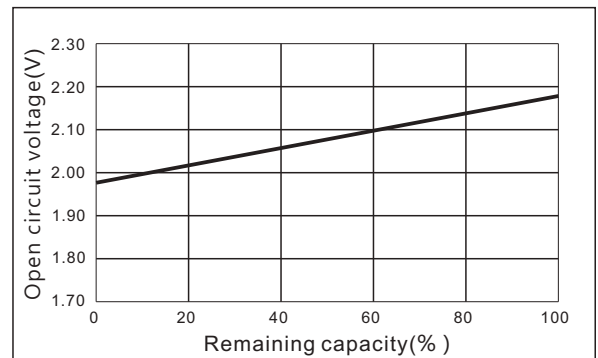
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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