

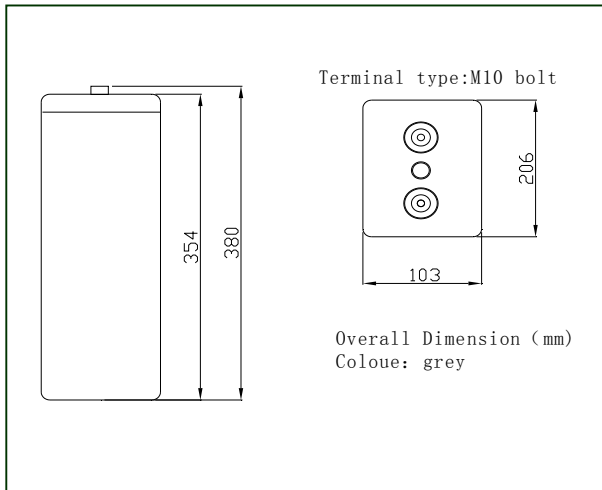
JPVD(OPzV)-200

The battery is manufactured with PVC-SiO₂ separator and colloidal or foamed silica. The tubular positive plate and pasted negative plate is applied. The batteries use silica gel to immobilize the electrolyte inside the battery. The proven silica gel technology improves battery cycle life and performance at various ambient temperatures.

General Features

- (1) The battery has a long service life, under float charging, ambient temperature 25°C, it can operate 12-15 years .
- (2) Excellent Recovery from deep discharge and good deep discharge cycle capability.
- (3) the battery has a low self-discharge, keep over 60% of the rated capacity after 2 years stored under 25°C.
- (4) High Reliability and Quality

Outer Dimensions



Performance Characteristics

| | |
|--|-----------|
| Nominal Voltage | 2V |
| Number of cell | 1 |
| Design Life | 20 years |
| Nominal Capacity 77°F(25°C) | |
| 240 hour rate(1.1A, 1.85V) | 264Ah |
| 48 hour rate(5.2A, 1.85V) | 250Ah |
| 10 hour rate(20A, 1.80V) | 200Ah |
| 3 hour rate (50A, 1.80V) | 150Ah |
| 1 hour rate(111A, 1.70V) | 111Ah |
| Self-Discharge | |
| 1.5% of capacity declined per month at 20°C(average) | |
| Operation Temperature Range | |
| Discharge | -20~65°C |
| Charge | -10~65°C |
| Storage | -20~65°C |
| Max. Discharge Current 77°F(25°C) | 1000A(5s) |
| Short Circuit Current | 1600A |

Dimensions and Weight

| | |
|----------------------------------|-------------|
| Length (mm / inch) | 103 / 4.05 |
| Width (mm / inch) | 206 / 8.11 |
| Height (mm / inch) | 354 / 13.94 |
| Total Height (mm / inch) | 380 / 14.96 |
| Approx. Weight(Kg / lbs) | 20.0 / 44.0 |

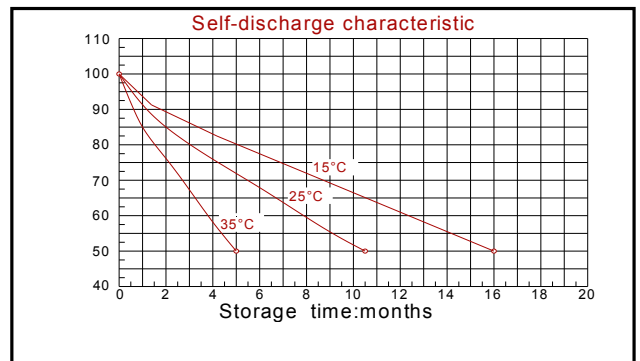
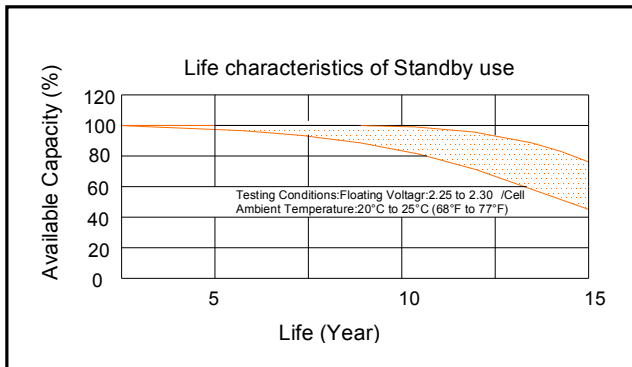
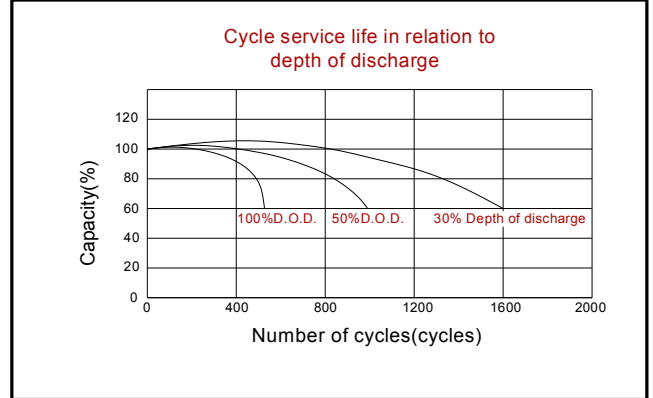
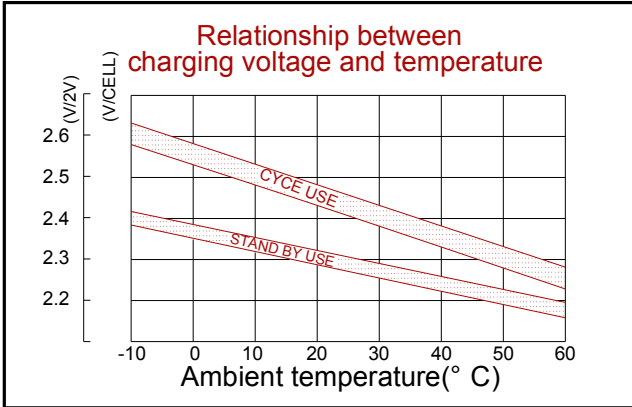
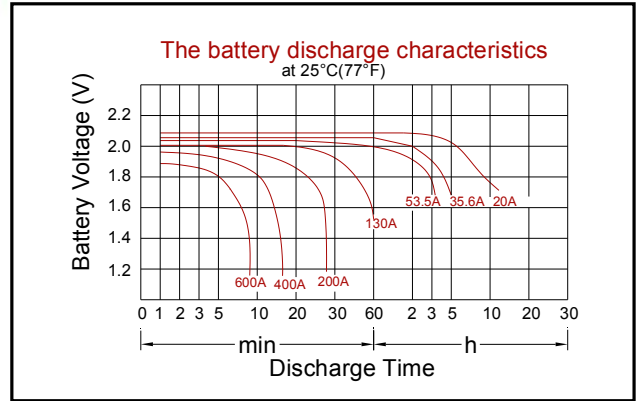
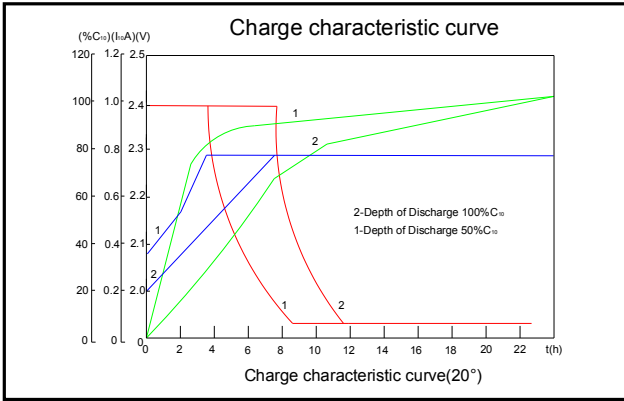
Battery Construction

| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|----------------------|-------------|
| Raw material | Tubular | Lead | ABS | ABS | Rubber | Copper | PVC-SiO ₂ | Gel |

Charging Methods

| Application | Charging method | Charging Voltage at 20°C | Temperature compensation coefficient of charging voltage | Max. charging current | Charging time 20°C(h) | | Temp (°C) |
|--------------------------|-------------------------------------|--------------------------|--|-----------------------|-----------------------|---------------|--------------------|
| | | | | | 100% discharge | 50% discharge | |
| For standby power source | Constant voltage & Constant Current | 2.23~2.27V | -3 mV/°C | 30A | 36 | 30 | 0~45 (32~113°F) |
| For cycle service | Charging (with current restriction) | 2.38~2.42V | -4 mV/°C | 30A | 24 | 20 | |

*Temperature compensation of charging voltage is not needed when using the batteries within 5°C to 35°C range.



Discharge Constant Current (Amperes at 77°F25°C)

| EndPoint Volts/Cell | 15' | 30' | 1h | 3h | 5 h | 10h | 24h | 48h | 120h |
|---------------------|-----|-----|------|------|------|-------|-------|-------|-------|
| 1.65V | 252 | 188 | 118 | 53.7 | 37.8 | ----- | ----- | ----- | ----- |
| 1.70V | 228 | 171 | 111 | 52.1 | 35.8 | ----- | ----- | ----- | ----- |
| 1.75V | 215 | 162 | 104 | 51.4 | 34.9 | 20.4 | ----- | ----- | ----- |
| 1.80V | 202 | 153 | 102 | 50.0 | 33.5 | 20.0 | ----- | ----- | ----- |
| 1.85V | 189 | 139 | 97.8 | 48.9 | 32.7 | 18.9 | 9.3 | 5.2 | 2.2 |

Discharge Constant Power (Watts at 77°F25°C)

| EndPoint Volts/Cell | 15' | 30' | 1h | 3h | 5 h | 10h | 24h | 48h | 120h |
|---------------------|-----|-----|-----|------|------|-------|-------|-------|-------|
| 1.65V | 491 | 366 | 236 | 107 | 75.1 | ----- | ----- | ----- | ----- |
| 1.70V | 445 | 333 | 221 | 104 | 71.3 | ----- | ----- | ----- | ----- |
| 1.75V | 419 | 316 | 208 | 102 | 69.4 | 40.6 | ----- | ----- | ----- |
| 1.80V | 394 | 298 | 203 | 99.5 | 66.7 | 39.8 | ----- | ----- | ----- |
| 1.85V | 369 | 271 | 195 | 97.3 | 65.0 | 37.7 | 18.5 | 10.3 | 4.43 |

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