

OPzV series

The OPzV series stationary batteries have performances meeting the standard DIN40742



Application

- Communication systems
- UPS and emergency illumination etc.
- Vessels and maritime affairs

•Characteristics

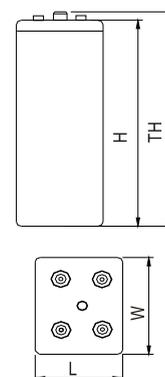
- Gelled electrolyte, no flow, no leakage or no gradation of sulfuric acid.
- The positive plate is tubular plate, which can effectively prevent the active materials from falling off.
- PVC-SiO₂ separator, which is special for gel battery with tiny holes. The separator has high volume porosity, low electrical resistance and excellent wettability
- Maintenance-free during the whole service life.
- Low self discharge rate
- Proof against deep discharge according to DIN 43539 T5

Technical parameters

| | |
|--|--|
| Environment temperature | -20 50 |
| Environmental temperature for best utilization | 25 5 |
| Float charging voltage | 2.25V/unit |
| Equalization voltage | 2.35V/unit |
| Temperature adjustment coefficient | -3mV/ /unit |
| Max charging current | 0.20C ₁₀ A |
| Design service life | 20 years(20) |
| Self-discharge rate | Less than 40% after 2-year storage at 20 |
| Recover performance after deep discharge | The battery can be recharged to 95% of the rated capacity after 12-hour deep discharge |
| The gas recombination efficiency exceeds | More than 99% |

Specification

| Type | Rated Voltage (V) | Rated Capacity (Ah) | Max Dimension " mm© | | | | Battery weight(app.) 5%(Kg) | Terminal |
|----------|-------------------|---------------------|---------------------|-----|-----|------|-----------------------------|----------|
| | | | (L) | (W) | (H) | (TH) | | |
| OPZV200 | 2 | 200 | 103 | 206 | 355 | 390 | 18 | T13 |
| OPZV250 | 2 | 250 | 124 | 206 | 355 | 390 | 21.5 | |
| OPZV300 | 2 | 300 | 145 | 206 | 355 | 390 | 24 | |
| OPZV350 | 2 | 350 | 124 | 206 | 471 | 506 | 28.5 | |
| OPZV420 | 2 | 420 | 145 | 206 | 471 | 506 | 33 | |
| OPZV500 | 2 | 500 | 166 | 206 | 471 | 506 | 38.5 | |
| OPZV600 | 2 | 600 | 145 | 206 | 646 | 681 | 45 | |
| | | | | | | | | |
| OPZV800 | 2 | 800 | 191 | 210 | 646 | 681 | 59 | |
| OPZV1000 | 2 | 1000 | 233 | 210 | 646 | 681 | 73 | |
| OPZV1200 | 2 | 1200 | 275 | 210 | 646 | 681 | 87 | |
| OPZV1400 | 2 | 1400 | | | | | 96 | |
| OPZV1500 | 2 | 1500 | 275 | 210 | 796 | 831 | 103 | |
| OPZV1600 | 2 | 1600 | | | | | 110 | |
| OPZV1800 | 2 | 1800 | | | | | | |
| OPZV2000 | 2 | 2000 | 399 | 210 | 772 | 807 | 145 | |
| OPZV2200 | 2 | 2200 | | | | | 158 | |
| OPZV2500 | 2 | 2500 | 487 | 212 | 772 | 807 | 185 | |
| OPZV2800 | 2 | 2800 | | | | | | |
| OPZV3000 | 2 | 3000 | 576 | 212 | 772 | 807 | | |



OPzV series

Performance(25°C/77°F)



OPZV200

Constant current discharge in A

| Volt./Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|------|----|----|------|----|------|-----|
| 1.8V/Cell | 201.6 | 154 | 102 | 63.6 | 51 | 40 | 33.8 | 28 | 23.8 | 20 |

Capacity for lower rate discharge(Ah)

| Vlot./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 225 | 250 | 262 | 266 |

OPZV250

Constant current discharge in A

| Volt./Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|----|------|------|----|----|------|-----|
| 1.8V/Cell | 253 | 191 | 127 | 80 | 62.5 | 48.5 | 41 | 36 | 28.5 | 25 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 281 | 311 | 327 | 334 |

OPZV300

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-------|----|----|------|------|----|------|-----|
| 1.8V/Cell | 302 | 230 | 152.5 | 95 | 75 | 58.5 | 49.5 | 43 | 34.5 | 30 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 337 | 375 | 392 | 399 |

OPZV350

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|----|----|----|----|----|-----|
| 1.8V/Cell | 320 | 265 | 184 | 116 | 87 | 72 | 61 | 53 | 43 | 36 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 392 | 436 | 457 | 465 |

OPZV420

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|----|------|----|------|-----|
| 1.8V/Cell | 385 | 318 | 221 | 140 | 105 | 85 | 73.5 | 64 | 51.5 | 42 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 472 | 525 | 550 | 559 |

OPZV500

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-------|-----|-----|------|------|----|-----|
| 1.8V/Cell | 448 | 370 | 259 | 163.5 | 122 | 100 | 86.5 | 74.5 | 60 | 50 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 552 | 613 | 641 | 654 |

OPZV600

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|-----|-----|----|----|-----|
| 1.8V/Cell | 492 | 420 | 312 | 199 | 150 | 122 | 103 | 90 | 72 | 60 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|-----|------|------|
| 1.85V/Cell | 674 | 750 | 784 | 798 |

OPzV series

Performance(25°C/77°F)



OPZV800

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|-------|-----|-----|----|-----|
| 1.8V/Cell | 655 | 560 | 415 | 265 | 200 | 163.5 | 138 | 120 | 96 | 80 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|-----|------|------|------|
| 1.85V/Cell | 890 | 1000 | 1037 | 1055 |

OPZV1000

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.8V/Cell | 820 | 700 | 520 | 332 | 250 | 204 | 173 | 150 | 120 | 100 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|------|------|------|------|
| 1.85V/Cell | 1112 | 1250 | 1296 | 1318 |

OPZV1200

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|-------|-----|-----|-----|-----|
| 1.8V/Cell | 984 | 840 | 624 | 398 | 300 | 244.5 | 207 | 180 | 144 | 120 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|------|------|------|------|
| 1.85V/Cell | 1333 | 1500 | 1555 | 1581 |

OPZV1500

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.8V/Cell | 1008 | 923 | 738 | 506 | 390 | 313 | 263 | 226 | 180 | 150 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|------|------|------|------|
| 1.85V/Cell | 1638 | 1830 | 1906 | 1941 |

OPZV2000

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.8V/Cell | 1344 | 1232 | 984 | 675 | 520 | 418 | 350 | 302 | 238 | 200 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|------|------|------|------|
| 1.85V/Cell | 2185 | 2440 | 2545 | 2588 |

OPZV2500

Constant current discharge in A

| Volt./TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|------------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|
| 1.8V/Cell | 1680 | 1540 | 1230 | 844 | 625 | 522 | 438 | 378 | 298 | 250 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|------|------|------|------|
| 1.85V/Cell | 2732 | 3050 | 3180 | 3235 |

OPZV3000

Constant current discharge in A

| F.V/TIME | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|-----------|-------|-------|------|------|-----|-----|-----|-----|-----|-----|
| 1.8V/Cell | 2016 | 1848 | 1475 | 1012 | 780 | 625 | 525 | 453 | 357 | 300 |

Capacity for lower rate discharge(Ah)

| Volt./Capacity | C24 | C48 | C120 | C240 |
|----------------|------|------|------|------|
| 1.85V/Cell | 3279 | 3660 | 3817 | 3882 |