

OPzV Series SLA Battery

Opzv Series

Bosfa Opzv Series Valve Regulated Lead Acid batteries are designed with a proven combination of GEL and Tubular technologies to offer a very high lever of reliability. Opzv batteries benefit from an optimized plate design which gives capacities in excess of the DIN standard values. In addition, this series offers both a longest float life and a high cycle life in widely industrial field.

Application

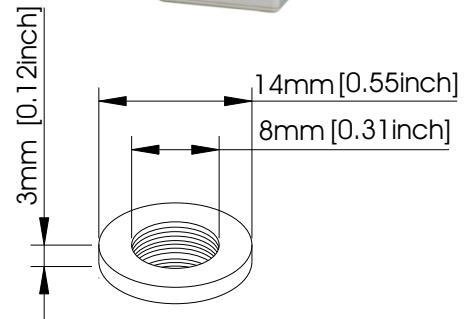
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|--------------------|---------------------------|
| Telecommunications | Medical Equipment |
| Cable Television | UPS |
| Electric Utility | Railroad Utility |
| Control Equipment | Photovoltaic System |
| Security System | Alternative Energy System |

General Features

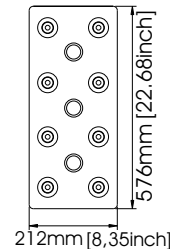
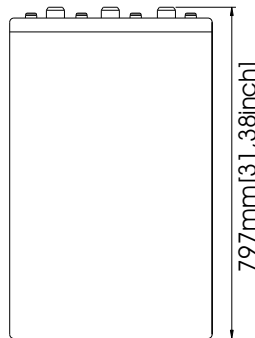
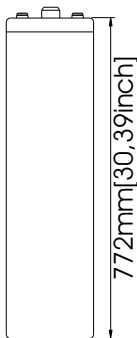
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Super long service life.
- Lowest self discharge characteristic.
- Super reliability.

Construction

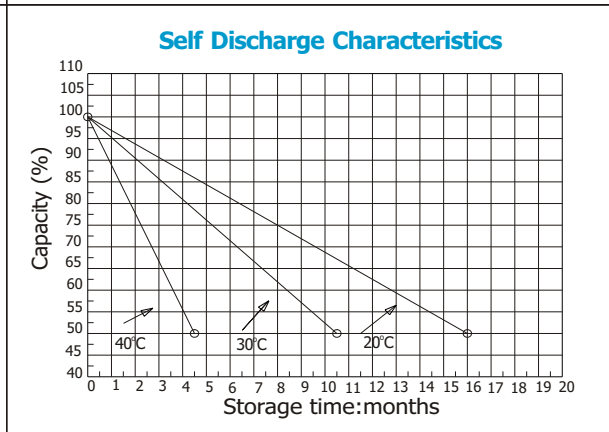
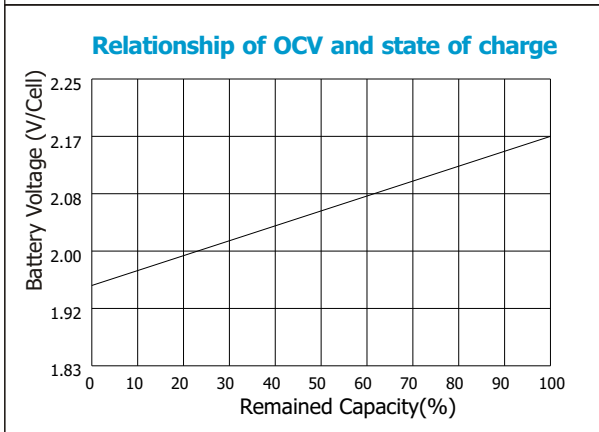
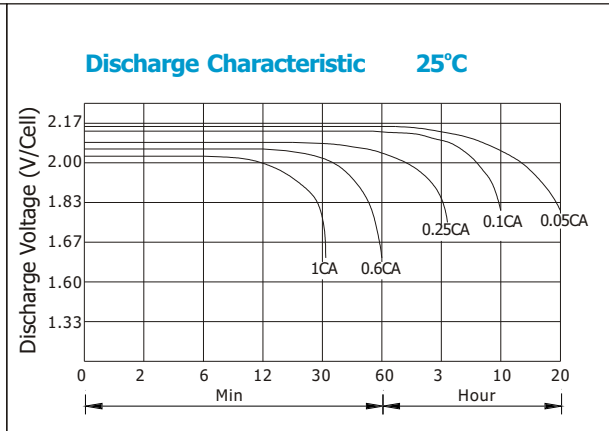
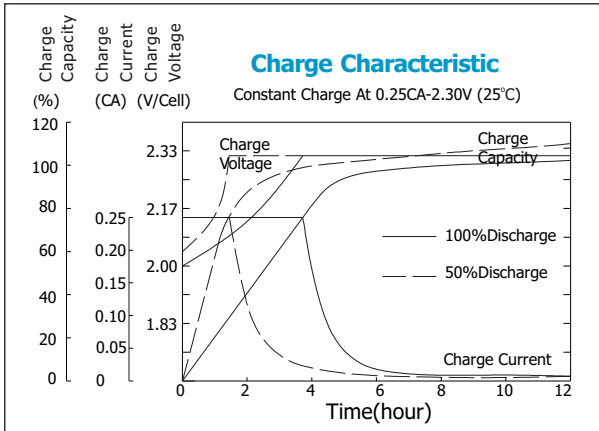
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|-----------------|--------------|--------------------|----------------------|
| Component | Raw material | Sealant | Epoxy Resin |
| Positive | Lead dioxide | Safety valve | EPDR |
| Negative | Lead | Terminal | Copper |
| Container | ABS | Separator | PVC-SiO ₂ |
| Cover | ABS | Electrolyte | Sulfuric acid |
| | | | Thixotropic Gel |



Terminal Dimensions



| | | | | |
|----------------------------------|---|------------------|------------------------|------------------|
| Battery Model | OPzV 2-3000 | | | |
| Designed Floating Life | 15 Years | | | |
| Capacity(25°C) | 20HR(152A,1.75V) | 10HR(300A,1.75V) | 5HR(542A,1.75V) | 1HR(1950A,1.75V) |
| | 3040AH | 3000AH | 2710AH | 1950AH |
| Dimensions | Length | Width | Height | Total Height |
| | 576mm(22.68inch) | 212mm(8.35inch) | 772mm(30.39inch) | 797mm(31.38inch) |
| Approx. Weight | 240Kg (529.20 lbs) | | | |
| Internal Resistance | Full charged at 25°C: 0.00045 Ohm | | | |
| Self Discharge | 3% of capacity declined per month at (25°C) | | | |
| Capacity Affected by Temp.(20HR) | 40°C | 25°C | 0°C | -15°C |
| | 102% | 100% | 85% | 65% |
| Charge Voltage(25°C) | Cycle use | | Float use | |
| | 2.3V-2.35V(-5mV/ °C), max. Current: 600A | | 2.25-2.27V(-3.3mV/ °C) | |



Constant current discharge ratings-amperes at 25°C

| F.V/Time | 15MIN | 30MIN | 1HR | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|------|------|-----|-----|-----|------|------|
| 1.70V | 2736 | 2328 | 1752 | 1132 | 840 | 557 | 372 | 308 | 188 |
| 1.75V | 2400 | 2112 | 1650 | 1080 | 816 | 544 | 370 | 305 | 185 |
| 1.80V | 2016 | 1848 | 1476 | 1012 | 780 | 526 | 358 | 300 | 179 |
| 1.83V | 1824 | 1680 | 1356 | 960 | 744 | 507 | 344 | 288 | 175 |
| 1.87V | 1440 | 1440 | 1188 | 864 | 680 | 466 | 326 | 272 | 158 |
| 1.90V | 1200 | 1200 | 1044 | 780 | 614 | 423 | 308 | 255 | 149 |

Constant power discharge ratings-watts at 25°C

| F.V/Time | 15MIN | 30MIN | 1HR | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|------|------|------|------|-----|------|------|
| 1.70V | 4586 | 3788 | 2831 | 2029 | 1574 | 1129 | 765 | 598 | 367 |
| 1.75V | 4062 | 3319 | 2724 | 2010 | 1567 | 1096 | 742 | 590 | 358 |
| 1.80V | 3302 | 3165 | 2453 | 1969 | 1506 | 1059 | 689 | 543 | 325 |
| 1.83V | 3133 | 2702 | 2403 | 1872 | 1445 | 996 | 659 | 520 | 310 |
| 1.87V | 2504 | 2462 | 2351 | 1658 | 1307 | 901 | 614 | 503 | 292 |
| 1.90V | 2411 | 2418 | 2066 | 1507 | 1179 | 775 | 574 | 481 | 282 |

