

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

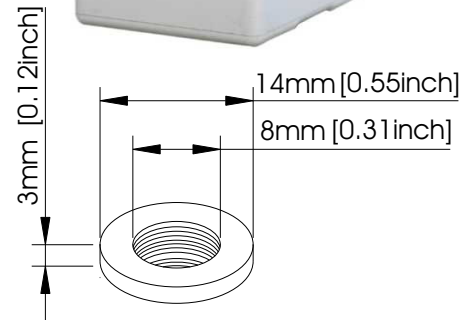
- Telecommunications
- Medical Equipment
- Cable Television
- UPS
- Electric Utility
- Railroad Utility
- Control Equipment
- Photovoltaic System
- Security System
- Alternative Energy System

General Features

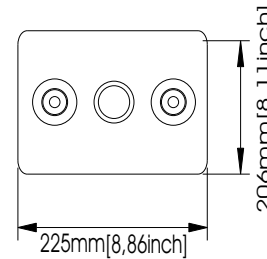
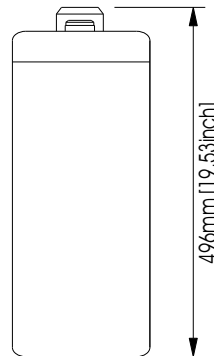
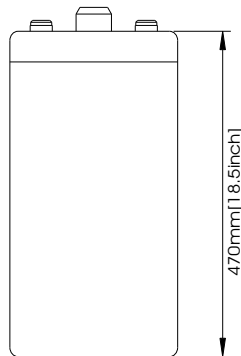
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Super long service life.
- Lowest self discharge characteristic.
- Super reliability.

Construction

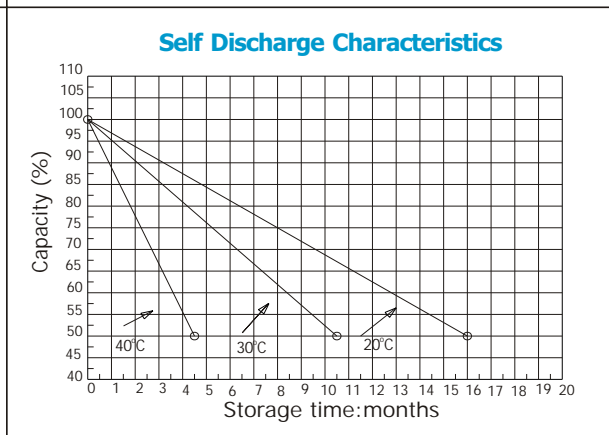
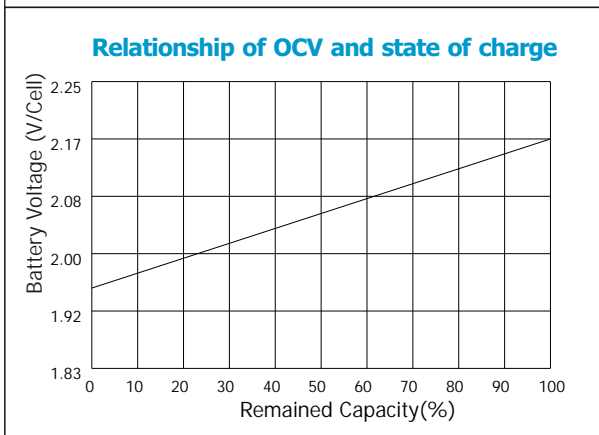
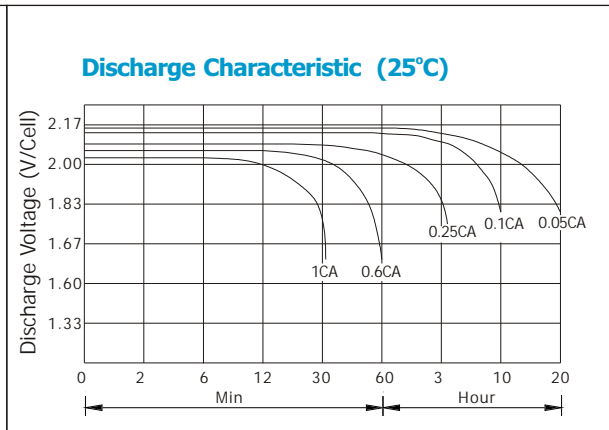
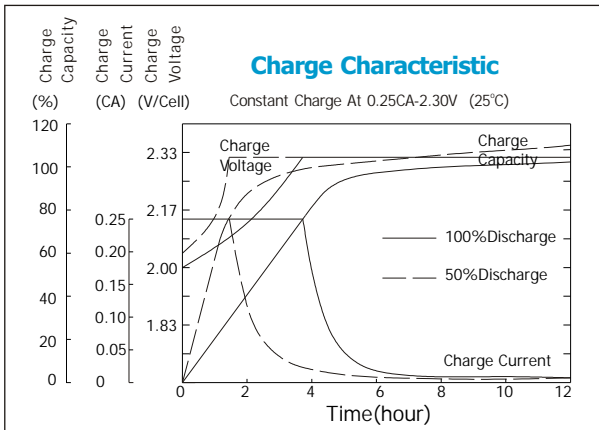
- ComponentRaw material
- SealantEpoxy Resin
- PositiveLead dioxide
- Safety valveEPDR
- NegativeLead
- TerminalCopper
- ContainerABS
- SeparatorPVC-SiO₂
- CoverABS
- ElectrolyteSulfuric acid
- Thixotropic Gel



Terminal Dimensions



| | | | | |
|----------------------------------|---|-----------------|------------------------|------------------|
| Battery Model | OPzV 2-700 | | | |
| Designed Floating Life | 15 Years | | | |
| Capacity(25°C) | 20HR(36A,1.75V) | 10HR(70A,1.75V) | 5HR(119A,1.75V) | 1HR(443A,1.75V) |
| | 720AH | 700AH | 595AH | 443AH |
| Dimensions | Length | Width | Height | Total Height |
| | 225mm(8.86inch) | 206mm(8.11inch) | 470mm(18.51inch) | 496mm(19.53inch) |
| Approx. Weight | 59.5 Kg (131.20 lbs) | | | |
| Internal Resistance | Full charged at 25°C: 0.00063 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: 140A | | 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 | 742 | 602 | 409 | 282 | 186 | 124 | 85.7 | 72.3 | 38.5 |
| 1.75V | 658 | 546 | 392 | 242 | 182 | 123 | 85.4 | 71.1 | 38.2 |
| 1.80V | 574 | 490 | 364 | 232 | 175 | 121 | 84.0 | 70.0 | 38.0 |
| 1.83V | 518 | 441 | 336 | 224 | 170 | 119 | 82.2 | 68.2 | 35.5 |
| 1.87V | 420 | 385 | 301 | 206 | 160 | 113 | 78.4 | 65.3 | 35.4 |
| 1.90V | 364 | 343 | 273 | 192 | 151 | 107 | 75.2 | 62.4 | 34.0 |

Constant power discharge ratings-watts at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 3HR | 5HR | 10HR | 20HR |
|----------|------|-------|-------|-------|-----|-----|-----|------|------|
| 1.70V | 1279 | 1041 | 742 | 535 | 375 | 257 | 170 | 139 | 78.8 |
| 1.75V | 1178 | 999 | 774 | 460 | 365 | 252 | 167 | 137 | 76.9 |
| 1.80V | 1043 | 940 | 682 | 449 | 352 | 248 | 165 | 135 | 76.3 |
| 1.83V | 959 | 804 | 628 | 429 | 346 | 236 | 157 | 132 | 70.9 |
| 1.87V | 908 | 761 | 612 | 428 | 341 | 232 | 152 | 128 | 70.7 |
| 1.90V | 753 | 699 | 556 | 412 | 310 | 222 | 146 | 120 | 66.6 |

