

SOPzV (GEL) TUBULAR PLATE BATTERY

Long Service Life

Tubular plate battery construction provides high energy density and prevents active material plate shedding resulting in improved runtime and cycle life performances relative to flat plate lead acid technologies.

Performance and Reliability

Thermoplastic Elastomer (TPE) washer and pillar seal designed to accommodate natural grid growth occurrence throughout battery lifetime. Battery containers are made of impact resistant Polypropylene material.

Maintenance and Safety

SOPzV Gel batteries are completely maintenance-free for increased safety and reduced cost associated with battery transport, maintenance and system integration. All products are tested and certified to multiple international safety standards.

Lower Total Cost of Ownership

Lower Total Cost of Ownership than flat plate lead acid technologies and a more affordable tubular plate battery option than OPzV Gel. Further savings can be achieved when integrated in Hybrid systems through diesel abatement and commercial and residential peak shaving applications.



Applications

- Hybrid Systems
- Hydraulic Systems
- Micro-grid
- Net Metering
- Off-Grid Systems
- Peak Shaving / Grid Stabilization
- Residential Storage Systems
- Security / Traffic Lighting and Signalling Systems

Certifications

Discover and its manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards.

Discover[®]
Innovative Battery Solutions

| Type No. | NOMINAL CAPACITY | | | | | Poles | MECHANICAL CHARACTERISTICS | | | | | | | | | |
|----------|------------------------|--------|--------|------------------------|-------|-------|----------------------------|----|-------|----|---------|----|----------|----|--------|----|
| | 240 HR | 120 HR | 100 HR | 20 HR | 10 HR | | Length | | Width | | Height* | | Height** | | Weight | |
| | 1.85VPC at 20°C / 68°F | | | 1.75VPC at 27°C / 80°F | | | IN | MM | IN | MM | IN | MM | IN | MM | LB | KG |

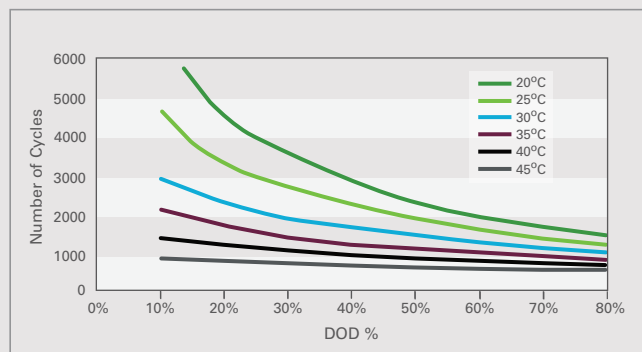
2 VOLT CELLS

SOPZV GEL RANGE

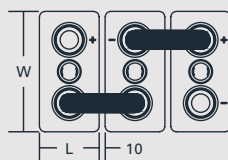
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|---------------|------|------|------|------|------|---|-----|-----|-----|-----|------|-----|------|-----|-----|----|
| 2VRE2-300TG | 156 | 150 | 146 | 135 | 122 | 2 | 1.9 | 47 | 7.8 | 198 | 13.5 | 342 | 14.6 | 372 | 20 | 9 |
| 2VRE2-400TG | 203 | 195 | 190 | 170 | 152 | 2 | 1.9 | 47 | 7.8 | 198 | 15.9 | 404 | 17.1 | 434 | 23 | 11 |
| 2VRE3-500TG | 240 | 230 | 224 | 200 | 180 | 2 | 2.6 | 65 | 7.8 | 198 | 13.5 | 342 | 14.6 | 372 | 28 | 13 |
| 2VRE3-600TG | 302 | 290 | 282 | 255 | 228 | 2 | 2.6 | 65 | 7.8 | 198 | 15.9 | 404 | 17.1 | 434 | 33 | 15 |
| 2VRE5-800TG | 396 | 380 | 370 | 335 | 300 | 2 | 4.0 | 101 | 7.8 | 198 | 13.5 | 342 | 14.6 | 372 | 43 | 20 |
| 2VRE6-900TG | 474 | 455 | 443 | 400 | 358 | 2 | 4.7 | 119 | 7.8 | 198 | 13.5 | 342 | 14.6 | 372 | 51 | 23 |
| 2VRE7-1000TG | 552 | 530 | 516 | 470 | 422 | 2 | 5.4 | 137 | 7.8 | 198 | 13.5 | 342 | 14.6 | 372 | 58 | 27 |
| 2VRE6-1200TG | 604 | 580 | 565 | 510 | 458 | 2 | 4.7 | 119 | 7.8 | 198 | 15.9 | 404 | 17.1 | 434 | 61 | 28 |
| 2VRE4-1300TG | 693 | 665 | 648 | 585 | 524 | 2 | 3.3 | 83 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 69 | 32 |
| 2VRE5-1400TG | 719 | 690 | 672 | 610 | 546 | 2 | 4.0 | 101 | 7.8 | 198 | 21.8 | 554 | 23.0 | 584 | 74 | 34 |
| 2VRE4-1600TG | 807 | 775 | 755 | 680 | 610 | 2 | 3.3 | 83 | 7.8 | 198 | 28.1 | 715 | 28.5 | 725 | 79 | 36 |
| 2VRE5-1700TG | 865 | 830 | 808 | 730 | 654 | 2 | 4.0 | 101 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 85 | 39 |
| 2VRE5-1900TG | 1005 | 965 | 940 | 855 | 766 | 2 | 4.0 | 101 | 7.8 | 198 | 28.1 | 715 | 28.5 | 725 | 92 | 42 |
| 2VRE6-2000TG | 1037 | 995 | 969 | 875 | 784 | 2 | 4.7 | 119 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 101 | 46 |
| 2VRE8-2200TG | 1151 | 1105 | 1076 | 975 | 874 | 2 | 6.1 | 155 | 7.8 | 198 | 21.8 | 554 | 23.0 | 584 | 114 | 52 |
| 2VRE7-2300TG | 1209 | 1160 | 1130 | 1025 | 918 | 2 | 5.4 | 137 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 114 | 52 |
| 2VRE9-2500TG | 1297 | 1245 | 1212 | 1095 | 982 | 2 | 6.8 | 173 | 7.8 | 198 | 21.8 | 554 | 23.0 | 584 | 128 | 58 |
| 2VRE8-2700TG | 1380 | 1325 | 1290 | 1170 | 1048 | 2 | 6.1 | 155 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 131 | 60 |
| 2VRE9-3000TG | 1552 | 1490 | 1451 | 1315 | 1178 | 2 | 6.8 | 173 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 146 | 67 |
| 2VRE8-3100TG | 1615 | 1550 | 1509 | 1365 | 1222 | 2 | 6.1 | 155 | 7.8 | 198 | 28.1 | 715 | 28.5 | 725 | 147 | 67 |
| 2VRE10-3300TG | 1730 | 1660 | 1616 | 1460 | 1308 | 2 | 7.5 | 191 | 7.8 | 198 | 26.5 | 672 | 27.6 | 702 | 163 | 74 |
| 2VRE9-3500TG | 1813 | 1740 | 1694 | 1535 | 1376 | 2 | 6.8 | 173 | 7.8 | 198 | 28.1 | 715 | 28.5 | 725 | 164 | 75 |
| 2VRE10-3900TG | 2016 | 1935 | 1884 | 1705 | 1528 | 2 | 7.5 | 191 | 7.8 | 198 | 28.1 | 715 | 28.5 | 725 | 183 | 83 |

* Height over lid. ** Height over pillar.

CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



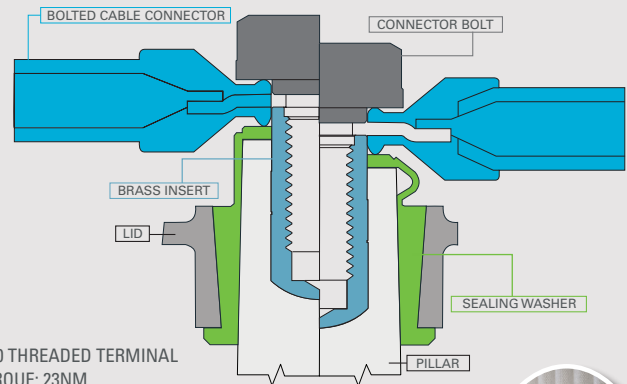
DRAWINGS



2V - 2 Pole

TERMINAL DESIGN

Maintains an airtight seal during plate expansion and growth throughout the lifetime of the cell.



TUBULAR PLATE TECHNOLOGY

Tubular Positive Plate and non-woven Polyester Gauntlets extend battery cycle and service life performances by reducing corrosion, self-discharge rates and capacity loss from active material plate shedding.

