2VRE-5900TF

DATA SHEET

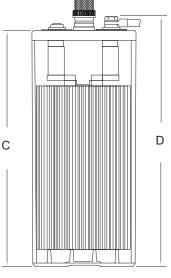


Tubular Flooded OPzS Battery Cell

Discover® Tubular Flooded RE Series Batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Discover® Tubular Flooded RE Series Batteries utilize Advanced Tubular Plate Technology to deliver long service life with low maintenance requirements. RE Series Batteries provide reliable energy storage for Stationary Backup and Telecom Networks, Road Surface, and Rail Traffic Signaling Systems, Solar, Wind, and Hybrid Off-grid and Grid-tie renewable energy applications. Discover® Tubular Flooded RE Series batteries provide maximum efficiency per discharge-charge cycle, and proven reliability in remote, high temperature, or unstable power network installations.

Mechanical Drawings





| Mechanical Spe | cifications | | | | |
|--------------------|-------------------------|--|--|--|--|
| Industry Reference | 2V Tubular Flooded OPzS | | | | |
| Length (A) | 15.6 in | 397 mm | | | |
| Width (B) | 8.3 in | 212 mm 772 mm 797 mm 155 kgs 109 kgs | | | |
| Height (C) | 30.4 in | | | | |
| Total Height (D) | 31.4 in | | | | |
| Weight (Wet) | 341 lbs | | | | |
| Weight (Dry) | 240 lbs | | | | |
| Terminal | M10 6 1 SAN | | | | |
| Poles | | | | | |
| Cell(s) | | | | | |
| Container | | | | | |

| Electrical Specifications | | | | | | | |
|---------------------------------------|------------------------|-------------|--|--|--|--|--|
| | 20% DOD | 2.05V | | | | | |
| Reference LVD (110 at 20°C 68°F) | 50% DOD | 1.97V | | | | | |
| | 80% DOD | 1.91V | | | | | |
| | 20% DOD | 7000 cycles | | | | | |
| Cycle Life | 50% DOD | 2950 cycles | | | | | |
| | 80% DOD | 1900 cycles | | | | | |
| RINT | 0.16 mΩ | | | | | | |
| Short Circuit (20°C 68 | B°F) | 12600 A | | | | | |
| Self Discharge (20°C | 2-3% per month | | | | | | |
| Maximum Operating | -35°C -31°F-50°C 122°F | | | | | | |
| Electrolyte (20°C 68° | 1.24 S.G. | | | | | | |

В

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12.5mm

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M10 Terminal

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| Electrico | al Specific | cations | | | | | | | | |
|-------------------------|-------------|---------|-------------------------|---------|---------|-------------------------|---------|---------|---------|--------|
| 1.85 VPC at 20°C 68°F | | | 1.75 VPC at 27°C 80°F | | | 1.75 VPC at 20°C 68°F | | | | |
| 240 HR | 120 HR | 120 HR | 100 HR | 20 HR | 10 HR | 8 HR | 5 HR | 3 HR | 1 HR | 1 HR |
| 3065 AH | 5.94 KWH | 2972 AH | 2913 AH | 2405 AH | 2186 AH | 2112 AH | 1930 AH | 1635 AH | 1.9 KWH | 964 AH |

| Constant Power Reference in Watts / Cell to 1.92VPC at 20°C 68°F | | | | | | | | | | |
|--|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 240 HR | 168 HR | 120 HR | 100 HR | 72 HR | 50 HR | 48 HR | 24 HR | 20 HR | 12 HR | 10 HR |
| 22.2 | 30.6 | 41.0 | 47.9 | 63.0 | 84.8 | 87.7 | 151.0 | 173.5 | 253.1 | 288.1 |

Benefits & Features

Unparalleled Performance

Engineered to deliver 80% of rated capacity above 1.91 volts.

Long Cycle Life

Tubular positive plates and proprietary alloy compositions to provide a 50% Depth of Discharge cycle life of up to 2950 cycles @ 20°C | 68°F.

Low Total Cost of Ownership

Low cost per cycle. Lifetime value maximized especially in hybrid systems where using batteries can dramatically reduce generator run times delivering lower maintenance and fuel costs and less CO2 emissions.

Low Maintenance

Low maintenance designs, clear case jars and available watering systems to ease electrolyte level maintenance.

Complete Battery Solution

Complete and ready to install systems, filled and charged with all necessary installation accessories (available Dry Charged).

Safe

Tested and verified for compliance to applicable International Safety Standards. Built-in Ceramic flame arrestors to guard against ignition risks.

IEC 61427 Compliant

 Tested for compliance with the International Electrical Commission requirements for battery performance and life in PV applications.

Certified Quality

Discover Energy Corp. and its facilities and products are certified to multiple standards and compliance:

- IEC 61427: Requirements for Photovoltaic Energy Systems
- IEC 60896-11: Requirements for Vented Lead-Acid batteries
- DIN 40736-1: Specifications for RE Series Cells
- DIN 40737-3: Specifications for RE Series Blocks
- EN 50272-2: Safety Requirements for Stationary batteries
 ISO 9001, ISO 14001, BS OHSAS 180:
- ISO 9001, ISO 14001, BS OHSAS 180: Manufacturing and Production facilities
- ETTS Germany

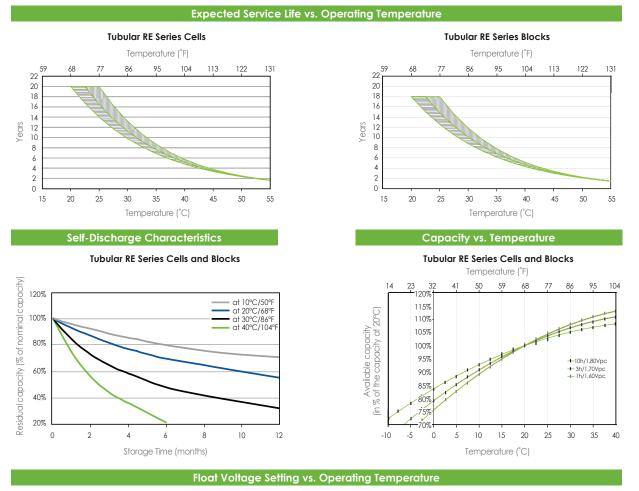


Contact Us

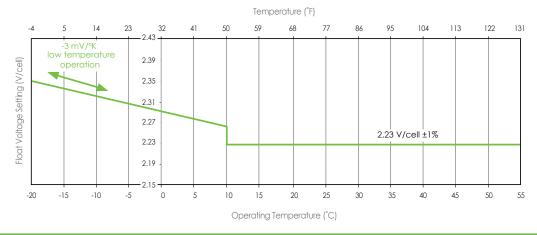


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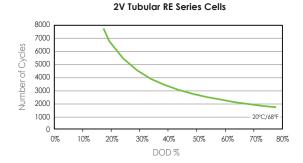




Tubular RE Series Cells and Blocks



Number of Cycles vs. DOD



6V and 12V Tubular RE Series Blocks

