12VRE-1600TF

DATA SHEET

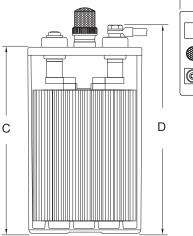


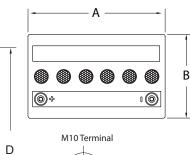
Tubular Flooded OPzS Battery Block

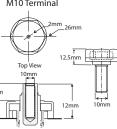
Discover® Tubular Flooded RE Series Batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Discover® Tubular Flooded RE Series Batteries utilize Advanced Tubular Plate Technology to deliver long service life with low maintenance 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









Side Viev

Mechanical Specifications Industry Reference 12V Tubular Flooded OPzS Length (A) 10.7 in 272 mm Width (B) 8.1 in 205 mm Height (C) 13.1 in 332 mm Total Height (D) 14.3 in 363 mm Weight (Wet) 109 lbs 49 kas Weight (Dry) 83 lbs 38 kas Terminal M10 Poles 2 Cell(s) 6 Container SAN

| Electrical Speci | ectrical Specifications | | | | |
|---------------------------------------|-------------------------|-------------|--|--|--|
| | 20% DOD | 12.3V | | | |
| Reference LVD (110 at 20°C 68°F) | 50% DOD | 11.9V | | | |
| | 80% DOD | 11.5V | | | |
| | 20% DOD | 6000 cycles | | | |
| Cycle Life | 50% DOD | 2500 cycles | | | |
| | 80% DOD | 1700 cycles | | | |
| RINT | 1.61 mΩ | | | | |
| Short Circuit (20°C 68 | 1260 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. | | | | |

| Electrical Specifications | | | | | | | | | | | |
|---------------------------|-------------------------|----------|--------|-------------------------|--------|--------|-------------------------|-------|-------|---------|-------|
| | 1.85 VPC at 20°C 68°F | | | 1.75 VPC at 27°C 80°F | | | 1.75 VPC at 20°C 68°F | | | | |
| ſ | 240 HR | 120 HR | 120 HR | 100 HR | 20 HR | 10 HR | 8 HR | 5 HR | 3 HR | 1 HR | 1 HR |
| | 137 AH | 1.58 KWH | 132 AH | 129 AH | 113 AH | 103 AH | 100 AH | 93 AH | 83 AH | 0.7 KWH | 58 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 |
| | 0.9 | 1.3 | 1.8 | 2.1 | 2.8 | 3.8 | 4.0 | 7.1 | 8.3 | 12.5 | 14.4 |

Benefits & Features

Unparalleled Performance

Engineered to deliver 80% of rated capacity above 11.5 volts.

Long Cycle Life

Tubular positive plates and proprietary alloy compositions to provide a 50% Depth of Discharge cycle life of up to 2500 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

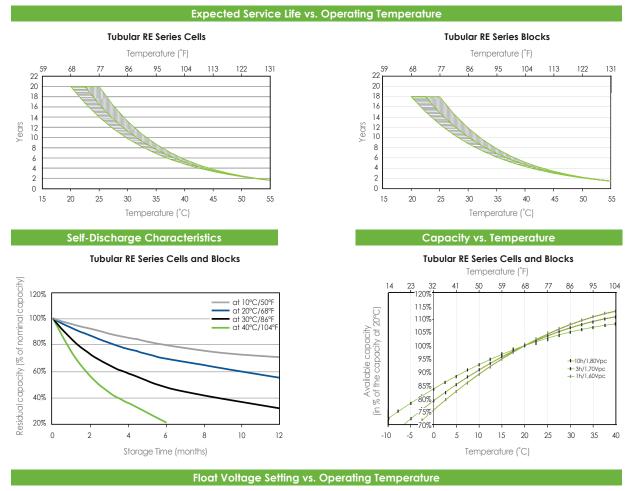


Contact Us

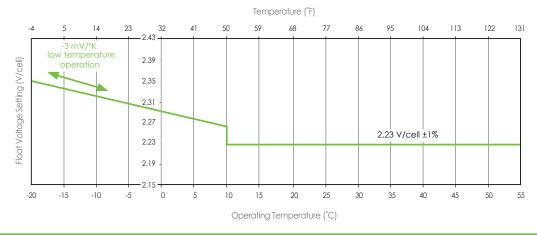


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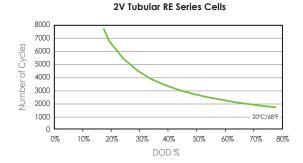




Tubular RE Series Cells and Blocks



Number of Cycles vs. DOD



6V and 12V Tubular RE Series Blocks

