2VRE-4400TF

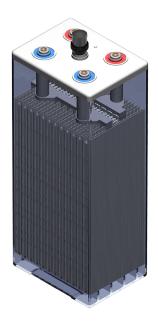
DATA SHEET

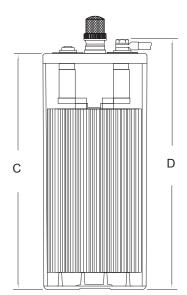


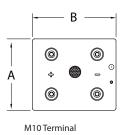
Tubular Flooded OPzS Battery Cell

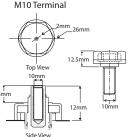
Discover® Tubular Flooded RE Series Batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Discover® Tubular Flooded RE Series Batteries utilize Advanced Tubular Plate Technology to deliver long service life with low maintenance 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 Specifications							
Industry Reference	2V Tubular Flooded OPz\$						
Length (A)	10.8 in	275 mm					
Width (B)	8.3 in	210 mm					
Height (C)	31.3 in	796 mm					
Total Height (D)	32.3 in	821 mm					
Weight (Wet)	244 lbs	111 kgs					
Weight (Dry)	168 lbs	76 kgs					
Terminal	M10						
Poles	4						
Cell(s)	1						
Container	SAN						

Electrical Specifications					
Reference LVD (110 at 20°C 68°F)	20% DOD	2.05V			
	50% DOD	1.97V			
	80% DOD	1.91V			
Cycle Life	20% DOD	7000 cycles			
	50% DOD	2950 cycles			
	80% DOD	1900 cycles			
RINT		0.238 mΩ			
Short Circuit (20°C 68°F)		8500 A			
Self Discharge (20°C 68°F)		2-3% per month			
Maximum Operating Temperature		-35°C -31°F-50°C 122°F			
Electrolyte (20°C 68°F)		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 240 HR 120 HR 100 HR 20 HR 8 HR 5 HR 1 HR 120 HR 10 HR 4.43 KWH 2172 AH 1785 AH 1412 AH 1179 AH 1.3 KWH 2283 AH 2216 AH 1623 AH 1568 AH 669 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
16.5	22.8	30.6	35.7	47.0	63.2	65.4	112.6	129.4	188.7	214.8

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 bottleries 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 fo 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: Manufacturing and Production facilities
- ETTS Germany







Contact Us

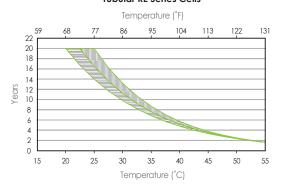


Unit 5-13511 Crestwood Place, Richmond, BC, V6V 2E9, Canada Email: info@discover-energy.com www.discover-energy.com

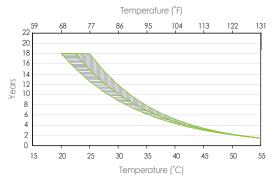


Expected Service Life vs. Operating Temperature

Tubular RE Series Cells

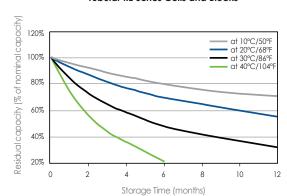


Tubular RE Series Blocks



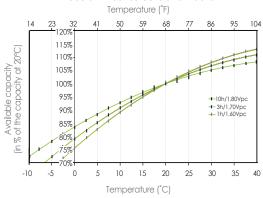
Self-Discharge Characteristics

Tubular RE Series Cells and Blocks



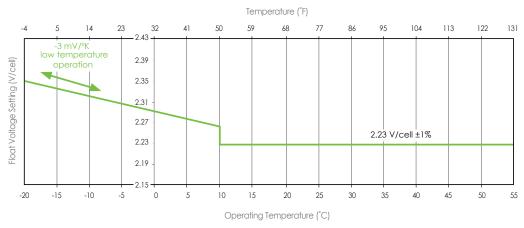
Capacity vs. Temperature

Tubular RE Series Cells and Blocks



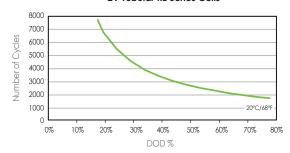
Float Voltage Setting vs. Operating Temperature

Tubular RE Series Cells and Blocks



Number of Cycles vs. DOD

2V Tubular RE Series Cells



6V and 12V Tubular RE Series Blocks

