2VRE-4500TF

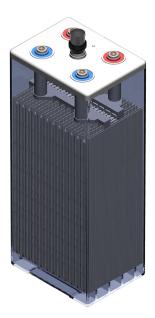
DATA SHEET

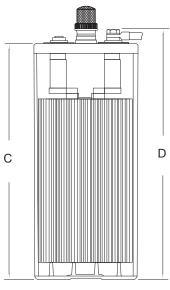


Tubular Flooded OPzS Battery Cell

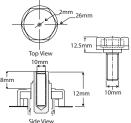
Discover® Tubular Flooded RE Series Batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Discover® Tubular Flooded RE Series Batteries utilize Advanced Tubular Plate Technology to deliver long service life with low maintenance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





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M10 Terminal							



Mechanical Specifications							
Industry Reference	2V Tubular Flooded OPzS						
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)	254 lbs	115 kgs					
Weight (Dry)	179 lbs	81 kgs					
Terminal	M10						
Poles	4						
Cell(s)	1						
Container	SAN						

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		0.225 mΩ				
Short Circuit (20°C 68	3°F)	9000 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	120 HR	100 HR	20 HR	10 HR	8 HR	5 HR	3 HR	1 HR	1 HR
2294 AH	4.45 KWH	2226 AH	2181 AH	1793 AH	1630 AH	1575 AH	1439 AH	1213 AH	1.4 KWH	703 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	
16.6	22.9	30.7	35.9	47.2	63.5	65.6	113.1	129.9	189.6	215.8	

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 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

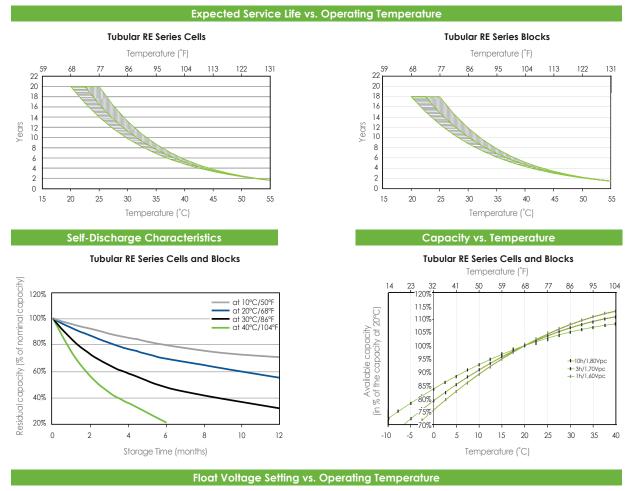


Contact Us

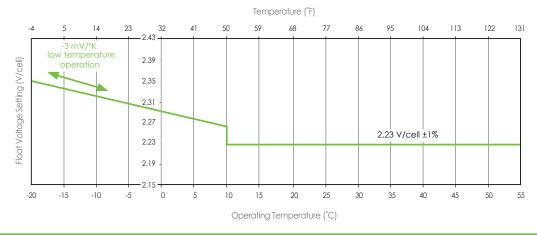


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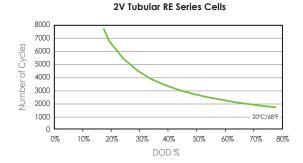




Tubular RE Series Cells and Blocks



Number of Cycles vs. DOD



6V and 12V Tubular RE Series Blocks

