2VRE5-1300TF

DATA SHEET

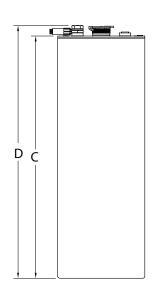


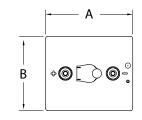
Tubular Flooded SOPzS Battery Cell

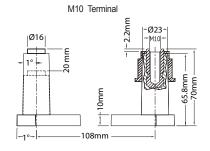
Discover® Tubular Flooded RE Series Batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Discover® Tubular Flooded RE Series Batteries utilize Advanced Tubular Plate Technology to deliver long service life with low maintenance 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 RE 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 SOPzS						
Length (A)	7.8 in	198 mm					
Width (B)	4.7 in	119 mm					
Height (C)	18.8 in	478 mm					
Total Height (D)	19.9 in	505 mm					
Weight (Wet)	61 lbs	28 kgs					
Weight (Dry)	42 lbs	19 kgs					
Terminal	M10 Insert						
Poles	2						
Cell(s)	1						
Container	Translucent Polypropylene						

Electrical Specifications					
	20% DOD	2.03 V			
Reference LVD (110 at 20°C 68°F)	50% DOD	1.95 V			
Cycle Life	80% DOD	1.90 V			
	20% DOD	6000 cycles			
	50% DOD	2300 cycles			
	80% DOD	1500 cycles			
RINT		0.64 mΩ			
Short Circuit (20°C 68°F)		3000 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
676 AH	1.30 KWH	650 AH	632 AH	512 AH	460 AH	444 AH	400 AH	333 AH	0.46 KWH	231 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
-	-	-	-	-	-	-	-	-	-	-

Benefits & Features

Unparalleled Performance

• Engineered to deliver 80% of rated capacity above 1.90 volts.

Long Cycle Life

 Tubular positive plates and proprietary alloy compositions to provide a 50% DoD cycle life of up to 2300 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:
- Manufacturing and Production facilities.
- ETTS Germany







Contact Us

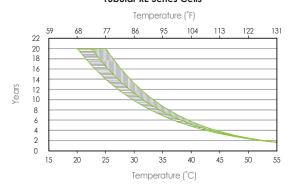


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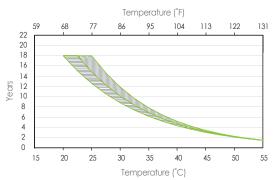


Expected Service Life vs. Operating Temperature

Tubular RE Series Cells

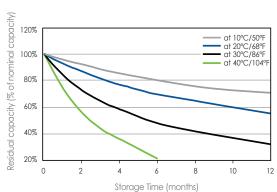


Tubular RE Series Blocks



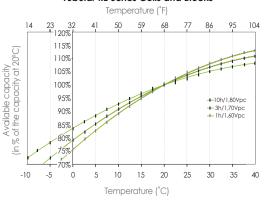
Self-Discharge Characteristics





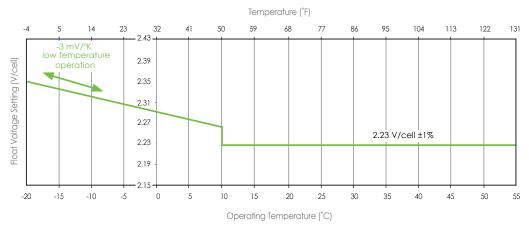
Capacity vs. Temperature

Tubular RE Series Cells and Blocks



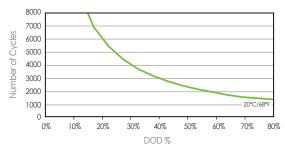
Float Voltage Setting vs. Operating Temperature

Tubular RE Series Cells and Blocks



Number of Cycles vs. DOD

2V Tubular RE Series Cells



6V and 12V Tubular RE Series Blocks

