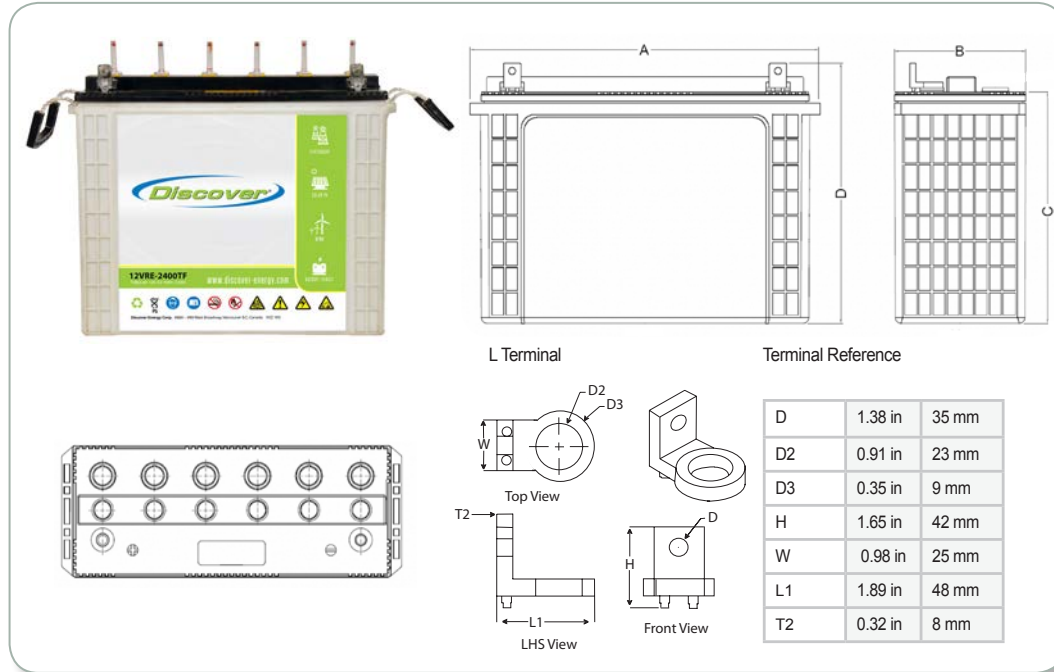


## 12VRE-2400TF-L

### Advanced Tubular Plate 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 Specifications

Industry Reference	12 V Tubular Flooded	
Length [A]	19.7 in	500 mm
Width [B]	7.4 in	187 mm
Height [C]	16.4 in	417 mm
Total Height [D]	16.8 in	427 mm
Weight (Acid Filled)	129 lbs	59 kgs
Weight (Dry)	69 lbs	31 kgs
Terminal	0.3125 in	M8
Cells	6	
Electrolyte	1.240 S.G @ 20°C/68°F	

### Electrical Specifications

Reference LVD (I10 @ 20°C/68°F)	@ 20% DOD	12.3 V
	@ 50% DOD	11.9 V
	@ 80% DOD	11.5 V
Cycle Life	@ 20% DOD	5000
	@ 50% DOD	2500
	@ 80% DOD	1500
RINT	5mΩ +/-1.5	
Short Circuit (@ 20°C / 68°F)	1750	
Self Discharge (@ 20°C / 68°F)	4 - 5% per month	
Maximum Operating Temperature	-35°C / -31°F ~ 50°C / 122°F	

### 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	1 HR
205 AH	2.4 KWH	197 AH	192 AH	175 AH	150 AH	151 AH	135 AH	117 AH	1.2 KWH	101 AH	101 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
1.4	2.0	2.7	3.1	4.2	5.8	5.9	10.7	12.4	18.7	21.5

### Tubular Flooded RE Series Features & Benefits

#### 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.

#### IEC 61427

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

#### Unparalleled Performance

- Engineered to deliver 80% of rated capacity above 11.4 volts.

#### Minimal Maintenance

- Low maintenance designs and available sight gauges ease electrolyte level maintenance.

#### Operational Safety

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

#### Optimum Total Cost of Ownership (TCO)

- 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.

#### Complete Battery Solution

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

### 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

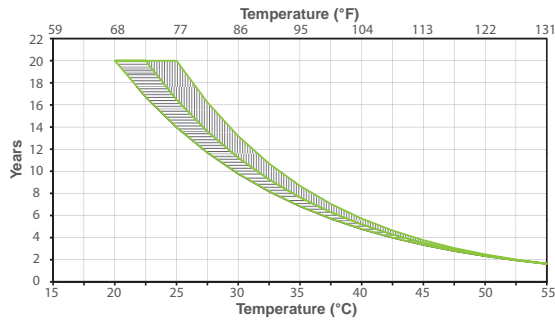


### Contact Us

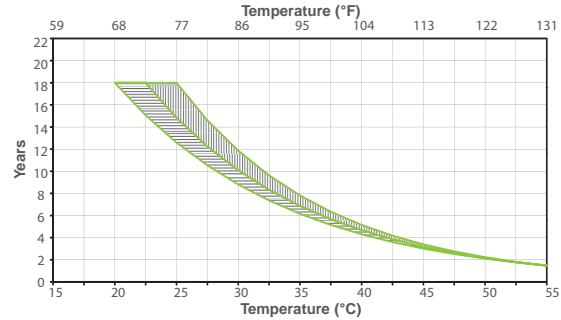
**Discover Energy Corp.**  
Suite 880-999 West Broadway  
Vancouver BC V5Z 1K5 Canada  
Tel: 604.730.2877  
Email: [info@discover-energy.com](mailto:info@discover-energy.com)  
[www.discover-energy.com](http://www.discover-energy.com)

## Graphs

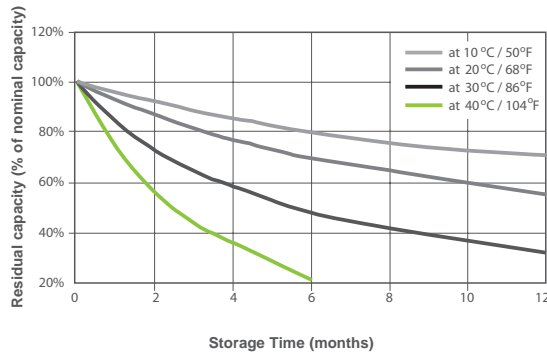
**Expected Service Life vs. Operating Temperature**  
Tubular Flooded RE Series Cells



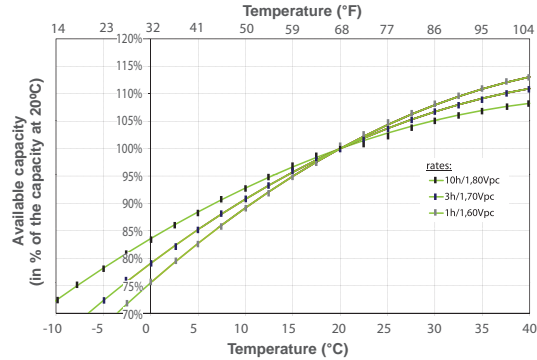
**Tubular Flooded RE Series Blocks**



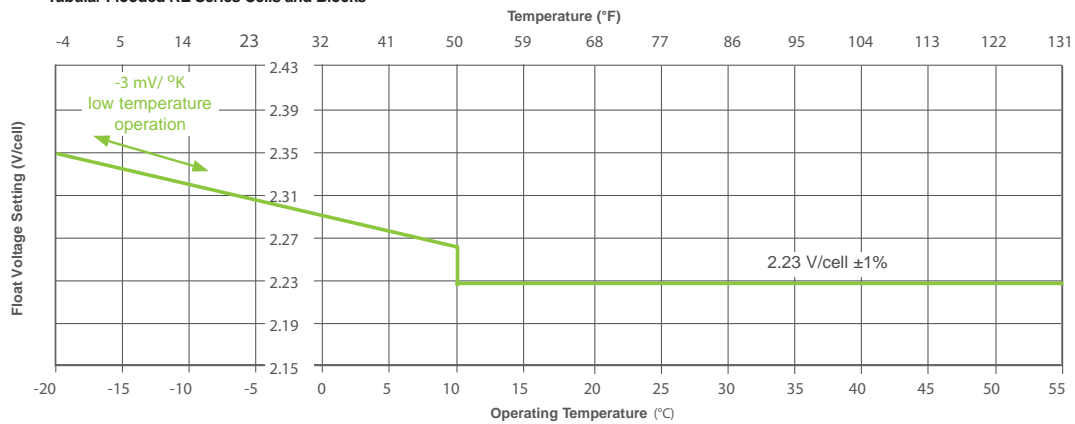
**Self-Discharge Characteristics**  
Tubular Flooded RE Series Cells and Blocks



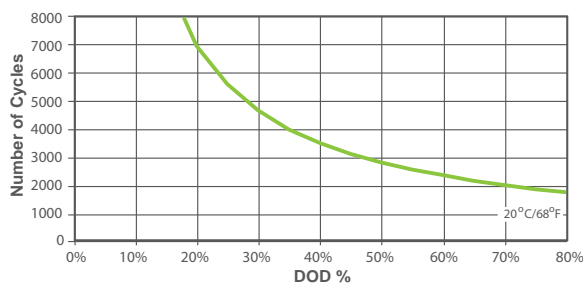
**Capacity vs. Temperature**  
Tubular Flooded RE Series Cells and Blocks



**Float Voltage Setting vs. Operating Temperature**  
Tubular Flooded RE Series Cells and Blocks



**Number of Cycles vs. DOD**  
2V Tubular Flooded RE Series Cells



**6V and 12V Tubular Flooded RE Series Blocks**

