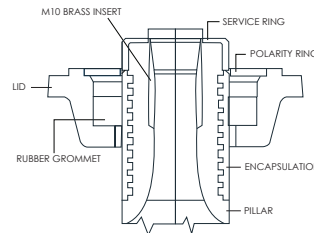
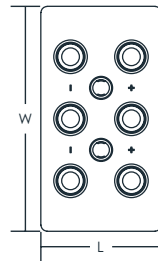
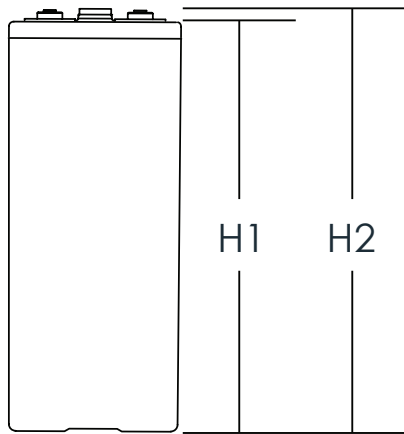


Tubular Flooded OPzS Cell

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	Tubular Flooded OPzS	
Length (A)	8.5 in	215 mm
Width (B)	15.7 in	400 mm
Height (C)	30.9 in	784 mm
Total Height (D)	31.9 in	809 mm
Weight (Wet)	322 lbs	146 kgs
Weight (Dry)	229 lbs	104 kgs
Terminal	M10	
Poles	6	
Cell(s)	1	
Container	SAN	

ELECTRICAL SPECIFICATIONS

Voltage	2	
Reference LVD / I10	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
Internal Resistance	0.17 mΩ	
Short Circuit	12150 A	
Self Discharge	2-3% per month	
Maximum Operating Temperature	-35°C / -31°F 50°C / 122°F	
Electrolyte	1.24 S.G.	

ELECTRICAL SPECIFICATIONS

240 HR	120 HR	100 HR	20 HR	10 HR	5 HR	3 HR	1 HR
1.85 Volts Per Cell (VPC)			1.75 Volts Per Cell (VPC)				
3065 AH	2972 AH	2913 AH	2405 AH	2186 AH	1930 AH	1635 AH	964 AH

NOTE: All Electrical Specifications are based on 20°C / 68°F temperature.

BENEFITS & FEATURES

Engineered to deliver 80% of rated capacity above 1.91 volts.

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 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 designs, clear case jars and available watering systems to ease electrolyte level maintenance.

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

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.

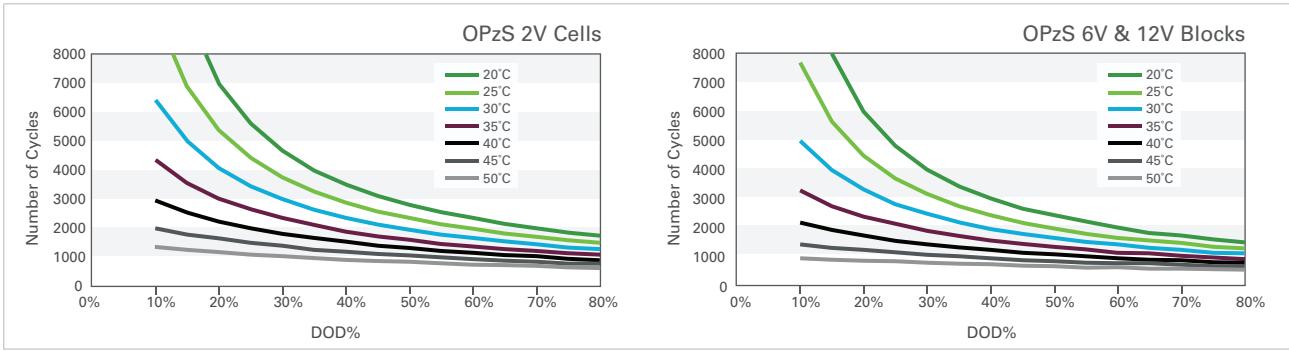
CERTIFIED QUALITY

Discover and its facilities and products are certified to multiple standards and compliance:

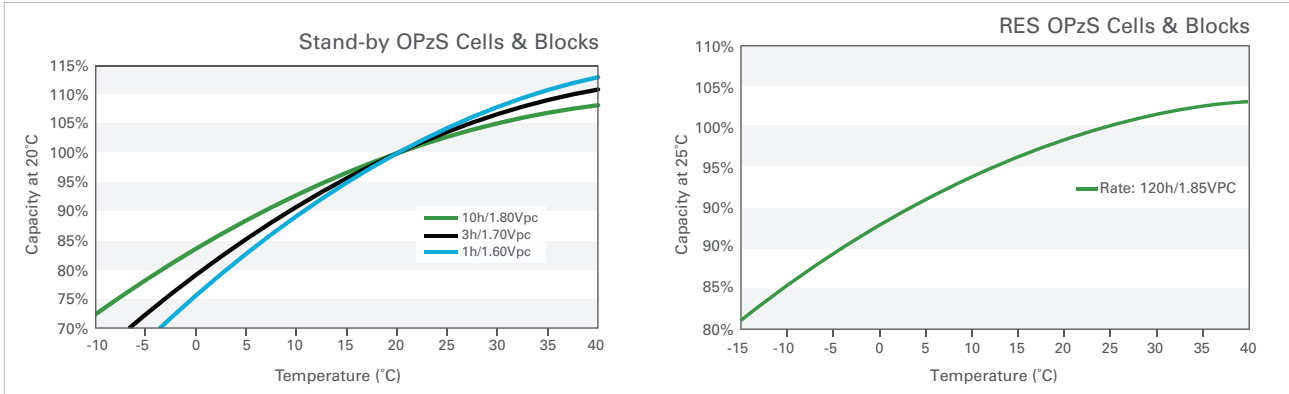
- IEC 61427: Requirements for Photovoltaic Energy Systems
- IEC 60896-11: Requirements for Vented Lead-Acid batteries
- DIN 40736-1: Specifications for RE Series Cells
- DIN 40737-3: Specifications for RE Series Blocks
- EN 50272-2: Safety Requirements for Stationary batteries
- ISO 9001, ISO 14001, BS OHSAS 180: Manufacturing and Production facilities
- ETTS Germany



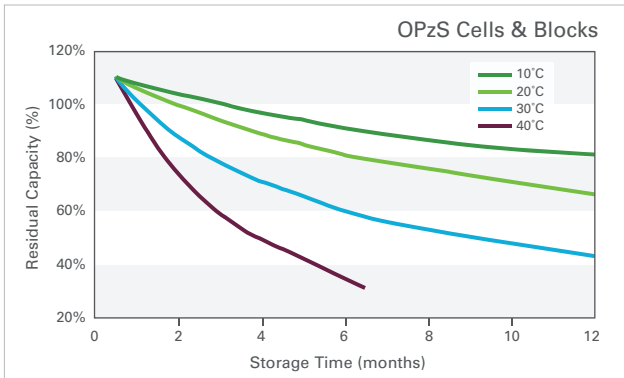
EXPECTED NUMBER OF CYCLES IN RELATION TO THE DEPTH OF DISCHARGE



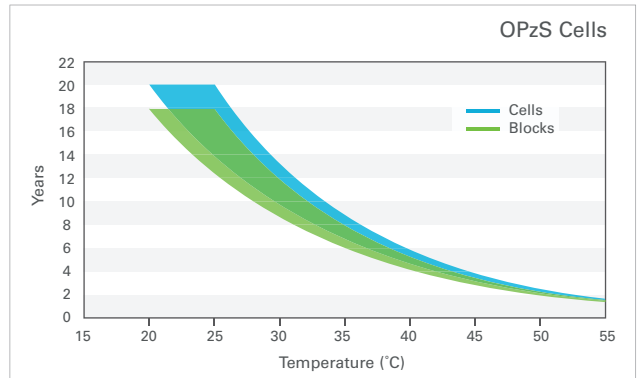
CAPACITY IN RELATION TO THE TEMPERATURE



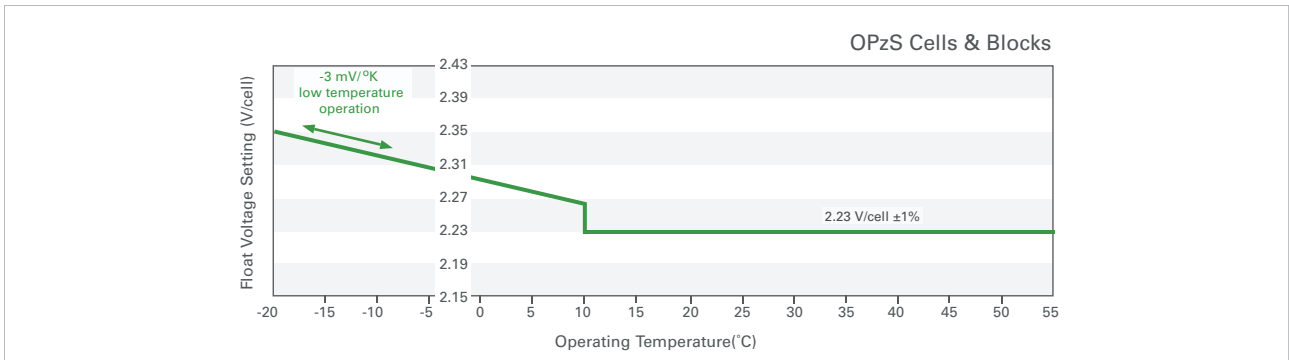
SELF-DISCHARGE CHARACTERISTICS



EXPECTED SERVICE LIFE IN RELATION TO OPERATING TEMPERATURE



FLOAT VOLTAGE SETTING IN RELATION TO OPERATING TEMPERATURE



Discover® attempts to ensure the correctness of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at any time without notice or obligation. It is the responsibility of the reader of this information to verify any and all information presented herein.