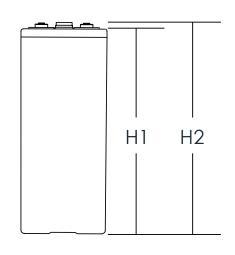
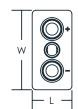


Tubular Flooded OPzS Cell

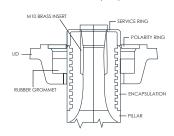
Discover® Tubular Flooded OPzS batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Providing reliable energy storage for Stationary Backup and Telecom Networks, and Renewable Energy applications with its Advanced Tubular Plate Technology to deliver long service life with low maintenance requirements. Discover® Tubular Flooded OPzS batteries provide maximum efficiency per discharge-charge cycle, and proven reliability in remote, high temperature, or unstable power network installations.

MECHANICAL DRAWINGS





Terminal (M10)



MECHANICAL SPECIFICATIONS

Industry Reference	Tubular Flooded OPzS			
Length (A)	5.8 in	147 mm		
Width (B)	8.2 in	208 mm		
Height (C)	25.8 in	656 mm		
Total Height (D)	26.9 in	682 mm		
Weight (Wet)	86 lbs	39 kgs		
Weight (Dry)	-	-		
Terminal	M10			
Poles	2			
Cell(s)	1			
Container	SAN			

ELECTRICAL SPECIFICATIONS

Voltage		2		
	20% DOD	2.05V		
Reference LVD / I10	50% DOD	1.97V		
	80% DOD	1.91V		
Cycle Life	20% DOD	7000 cycles		
	50% DOD	2950 cycles		
	80% DOD	1900 cycles		
Internal Resistance		0.43 mΩ		
Short Circuit		4700 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)					
1286 AH	1230 AH	1205 AH	920 AH	836 AH	725 AH	610 AH	364 AH

BENEFITS & FEATURES

Long Service Life

Tubular positive plates with non-woven polyester gauntlets are designed to prevent active material plate shedding and provide the highest cycling expectancy amongst lead acid technologies, particularly in PSoC (Partial State of Charge) operation.

High energy density tubular plates in combination with lead calcium alloy reduces self discharge and charge current requirements during float operation and extends battery service life.

Performance and Reliability

Special sliding pole terminals are designed to accommodate natural grid growth occurrence throughout battery lifetime. Battery containers are made of Styrene Acrylonitrile (SAN) to endure high impact and heat environments.

Maintenance and Optimization

OPzS Flooded batteries are manufactured with reduced watering frequency requirements and transparent containers to easily monitor electrolyte level.

Safety

All products are tested and certified to multiple international safety standards for use in Photovoltaic and Stationary applications. Flame retardant containers and centralized gassing and watering kits are available upon request.

Lowest Total Cost of Ownership

OPzSTubular batteries provide the Lowest Total Cost of Ownership (TCO) amongst lead acid technologies. Further savings can be achieved in Hybrid systems through diesel abatement and peak shaving.

CERTIFIED QUALITY

Discover and its manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards. OP2S and OP2VTubular products are also tested in compliance to multiple international standards:

- Eurobat "Long Life" classification
- IEC 60896-21/22 (OPzV) and IEC60896-11 (OPzS) test standard for stationary applications
- IEC 61427 test standard for photovoltaic energy systems
- EN50272-1 and EN50272-2 safety requirements
- DIN 40742 (OPzV) and DIN 40736 (OPzS) standard for stationary tubular plate cells
- UN 2800 (US DOT Compliance)

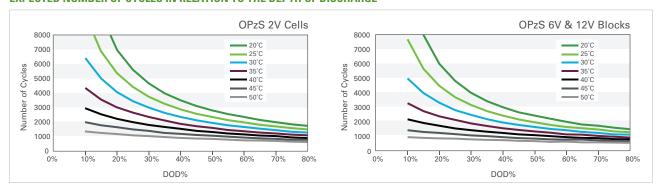




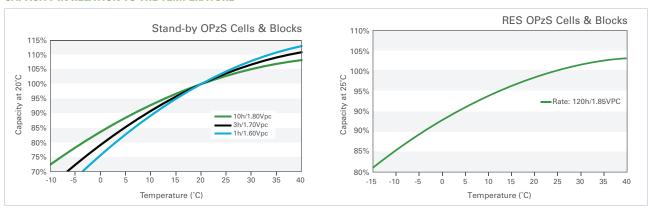


NOTE: All Electrical Specifications are based on 20°C / 68°F temperature.

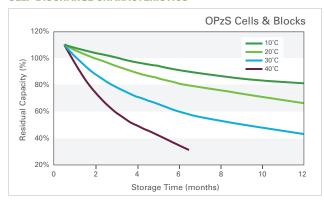
EXPECTED NUMBER OF CYCLES IN RELATION TO THE DEPTH OF DISCHARGE



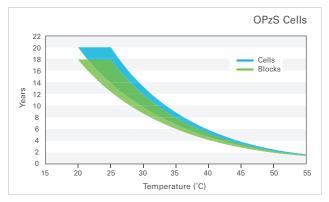
CAPACITY IN RELATION TO THE TEMPERATURE



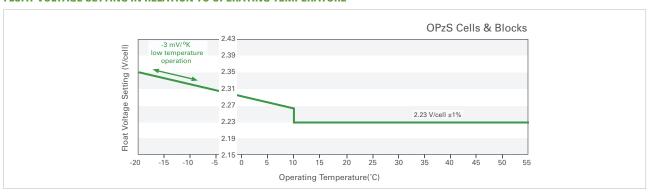
SELF-DISCHARGE CHARACTERISTICS



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 parties without notice and policy of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at parties and the product of this information to use the product of the