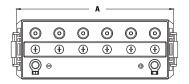
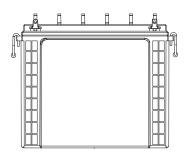


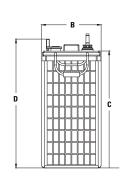
Tubular Flooded SOP2S Block

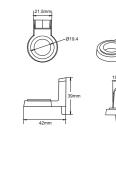
Discover® Tubular Flooded SOPzS batteries provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Providing reliable energy storage for Stationary Backup and Telecom Networks, and Renewable Energy applications with its Advanced Tubular 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









M8 Lug Terminal

MECHANICAL SPECIFICATIONS

Industry Reference	Tubular Flooded SOPzS			
Length (A)	19.9 in	505 mm		
Width (B)	7.48 in	190 mm		
Height (C)	14.7 in	374 mm		
Total Height (D)*	16.1 in	410 mm		
Weight (Wet)	134 lbs	60.8 kgs		
Weight (Dry)	-	-		
Terminal	M8			
Poles	2			
Cell(s)	6			
Container	PP			

ELECTRICAL SPECIFICATIONS

Voltage		12					
	20% DOD	12.3 V					
Reference LVD / I10	50% DOD	12.0 V					
	80% DOD	11.6 V					
Cycle Life	20% DOD	4500 cycles					
	50% DOD 2000 cycles						
	80% DOD	1100 cycles					
Internal Resistance		5mΩ +/-1.5					
Short Circuit		2150 A					
Self Discharge		5% per month					
Maximum Operating Temperature		-35°C / -31°F 50°C / 122°F					
Electrolyte		1.255 S.G.					

**** + 1.778.776.3288

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)					
255 AH	245 AH	238 AH	210 AH	185 AH	160 AH	139 AH	119 AH

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

BENEFITS & FEATURES

Long Service Life

Tubular positive plates with 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

Battery containers are made of Polypropylene (PP) to endure high impact and heat environments.

Maintenance and Optimization

SOPzS Flooded batteries are manufactured with reduced watering frequency requirements and translucent containers with water level indicators to easily monitor electrolyte level.

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

Lowest Total Cost of Ownership

SOPzSTubular 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. OPzS and OPzVTubular products are also tested in compliance to multiple international standards:

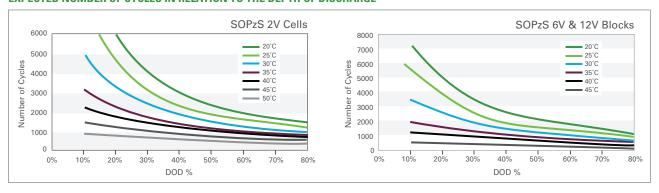
- Eurobat "Long Life" classification
- IEC 60896-21/22 (OPzV) and IEC60896-11 (OPzS) test standard for stationary applications
- IEC 61427 test standard for photovoltaic energy systems
- EN50272-1 and EN50272-2 safety requirements
- DIN 40742 (OPzV) and DIN 40736 (OPzS) standard for stationary tubular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



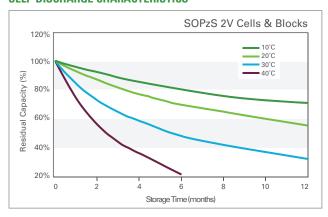




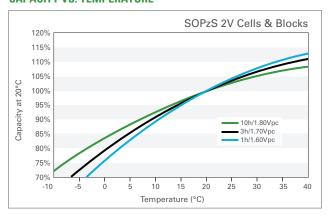
EXPECTED NUMBER OF CYCLES IN RELATION TO THE DEPTH OF DISCHARGE



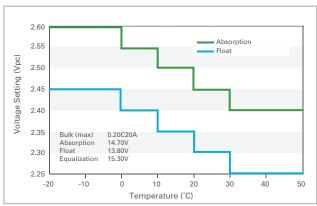
SELF-DISCHARGE CHARACTERISTICS



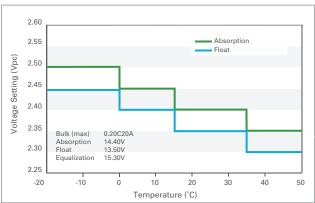
CAPACITY VS. TEMPERATURE



CHARGE SETTINGS FOR CYCLIC USE (25°C)



CHARGE SETTINGS FOR STANDBY USE (25°C)



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 without notice are obtained by the product of this information to use the product of the pr