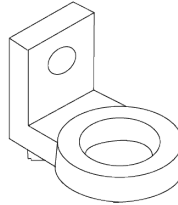
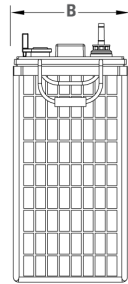
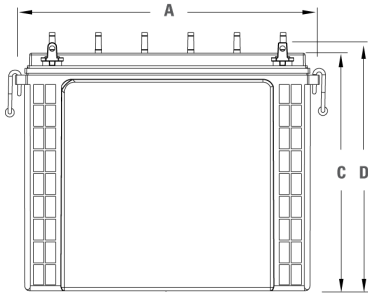




Discover® Energy Storage Tubular Flooded SOPzS batteries provide reliable energy storage for small-medium size stationary applications including residential and industrial backup, telecom networks, and renewable energy. SOPz Tubular Plate Technology extends lead-acid battery service life by providing excellent recovery during deep discharge and Partial State of Charge operation. SOPzS batteries are low maintenance and a cost efficient solution to energy storage.



FEATURES

TUBULAR TECHNOLOGY

- Positive plates provide 20% more capacity than flat plate batteries
- Encapsulated active material avoids plate shedding extending cycle life

POLYPROPYLENE CASE

- High heat resistance and durability
- Water-level indicators for easy maintenance

BENEFITS

EXTENDED SERVICE LIFE

- 2,000 cycles to 50% DoD
- Life superior to flat plate flooded batteries

RESILIENCE

- Intense duty cycling superior to flat plate batteries
- Partial state of charge operation superior to flat plate batteries
- Deep discharge recovery

CERTIFIED QUALITY

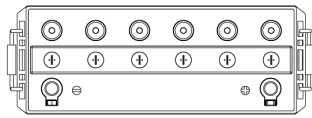
Discover® manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards.

Designed in accordance with and published in compliance with applicable standards, including:

- IEC 60896-11 (SOPzS) for stationary applications
- IEC 61427 for PV energy systems

SHIPPING CLASSIFICATION

- UN 2794



MECHANICAL SPECIFICATIONS

Industry Reference	DIN: OPzS 12V	
Length A (in/mm)	19.7 - in	502 - mm
Width B (in/mm)	7.5 - in	190 - mm
Height C (in/mm)	14.3 - in	363 - mm
Total Height D (in/mm)	15.8 - in	402 - mm
Weight - Wet (lbs/kgs)	151.8 - lbs	69.0 - kg
Terminal	LU	
Poles	2	

NOTE: There is a tolerance of +/-3%. Weight may vary

ELECTRICAL SPECIFICATIONS

Voltage (V)	12
Voltage Cutoff (20% DOD)	12.20
Voltage Cutoff (50% DOD)	11.90
Voltage Cutoff (80% DOD)	11.50
Self-Discharge	3% per month
Maximum Operating Temperature	Min: -35°C (-31°F) Max: 50°C (122°F)
Specific Gravity	1.255

NOTE: All electrical specifications are based on 25°C / 77°F temperature

PERFORMANCE SPECIFICATIONS

Amp Hours (AH)							
1 HR	3 HR	5 HR	10 HR	20 HR	100 HR	120 HR	240 HR
100	142	166	200	220	249	255	265

NOTE: All performance specifications are based on 25°C / 77°F temperature

CYCLE LIFE

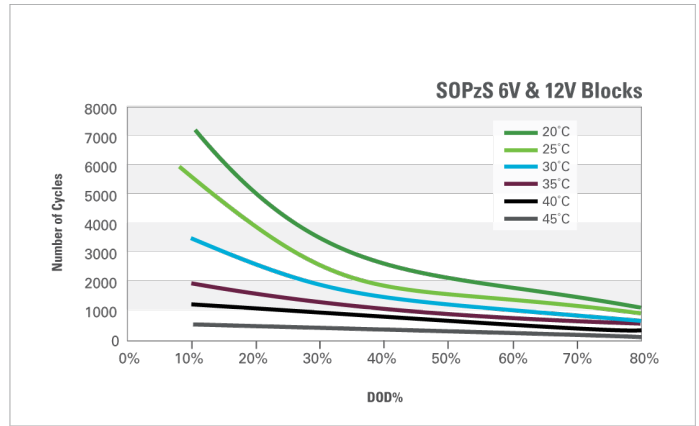
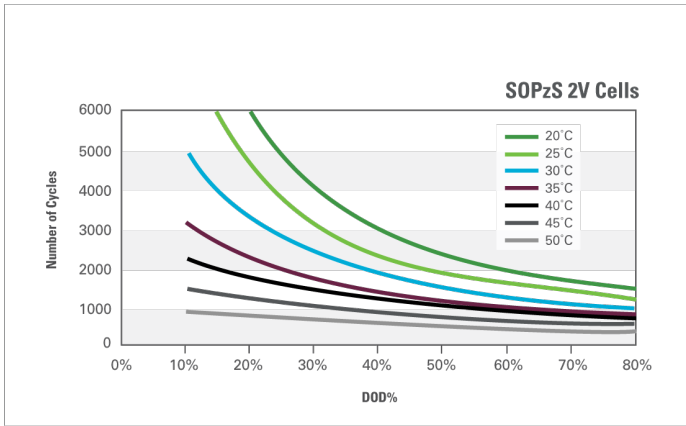
20% DoD	4500
50% DoD	2000
80% DoD	1100



ISO 14001
DIN ISO 9001/ QS9000

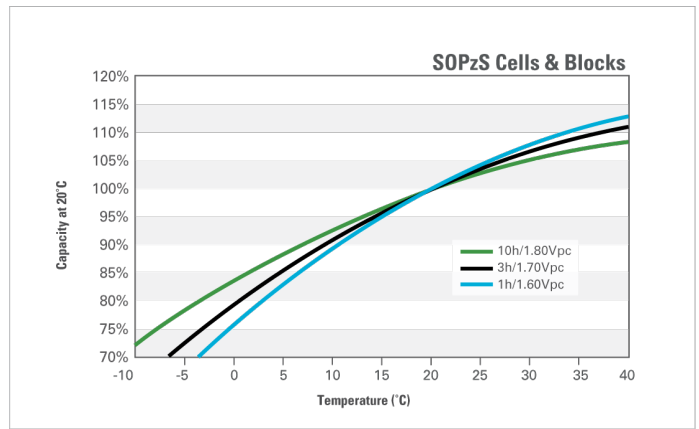
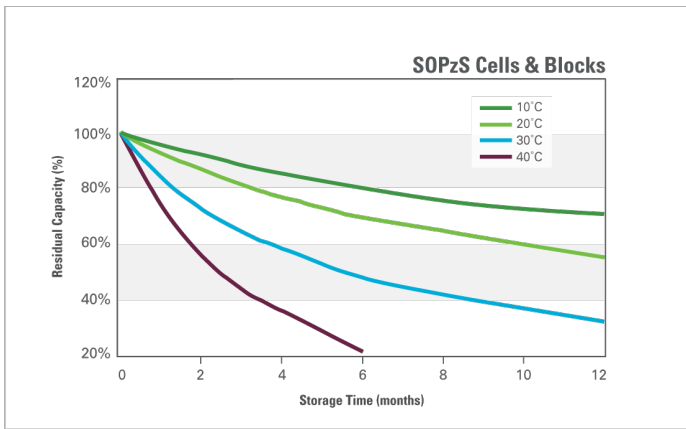
Expected Number of Cycles in Relation to The Depth of Discharge

Expected Number of Cycles in Relation to The Depth of Discharge



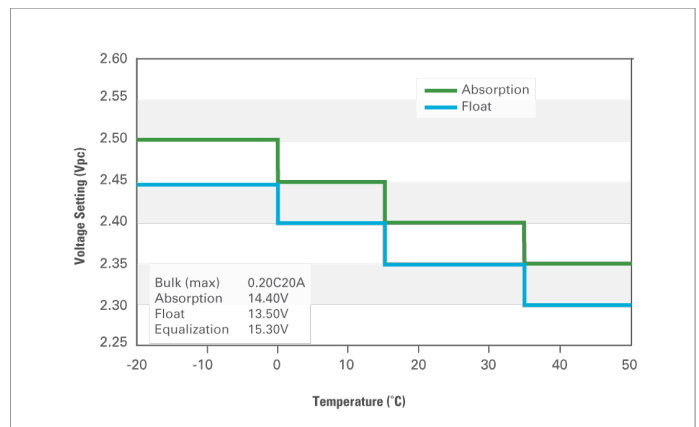
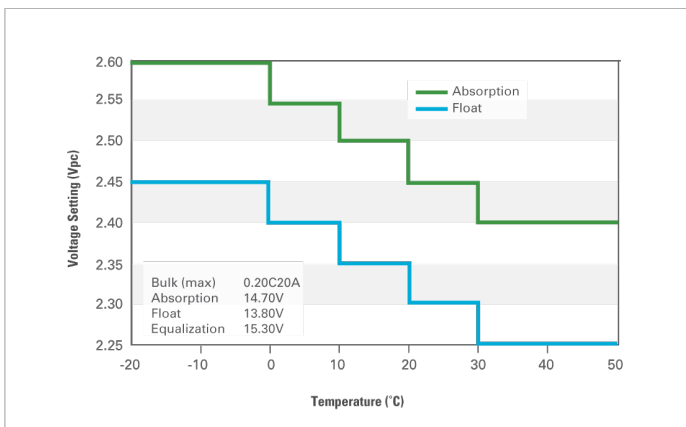
Self-Discharge Characteristics

Capacity vs. Temperature



Charge Settings For Cyclic Use (25°C)

Charge Settings For Standby Use (25°C)



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