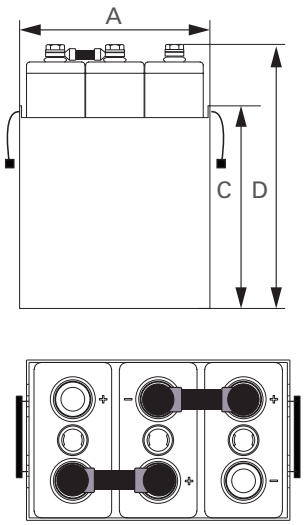
Discover®
Innovative Battery Solutions

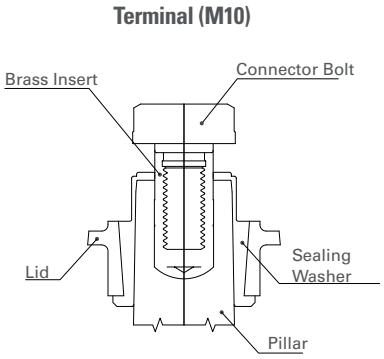
6VRE5-3400TG
DATASHEET

Tubular Gel SOPzV Block

Discover® Tubular Gel SOPzV batteries are maintenance-free andprovide 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. Discover® Tubular Gel SOPzV 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	L16	
Length (A)	12.7 in	323 mm
Width (B)	8.0 in	206 mm
Height (C)	13.5 in	344 mm
Total Height (D)	19.3 in	489 mm
Weight	190 lbs	86 kgs
Terminal	M10	
Poles	2	
Cell(s)	3	
Container	Steel	

ELECTRICAL SPECIFICATIONS

Voltage		6
Reference LVD / I10	**20% DOD**	6.12 V
	50% DOD	5.88 V
	80% DOD	5.62 V
Cycle Life	**20% DOD**	4500 cycles
	50% DOD	2300 cycles
	80% DOD	1350 cycles
Short Circuit		4640 A
Self Discharge		2.5 - 3% per month
Maximum Operating Temperature		-20°C / -4°F | 45°C / 113°F
Recommended Operating Temperature		15°C / 59°F | 35°C / 95°F
Electrolyte		Gel

ELECTRICAL SPECIFICATIONS

240 HR	120 HR	100 HR	20 HR	10 HR
1.85 Volts Per Cell (VPC)			1.75 Volts Per Cell (VPC)	
575 AH	560 AH	540 AH	485 AH	445 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
SOPzV Gel batteries are valve-regulated, non-spillable and completely maintenance-free and available with the option to be horizontally mounted.

Safety
All products are tested and certified to multiple international safety standards for use in Photovoltaic and Stationary applications.

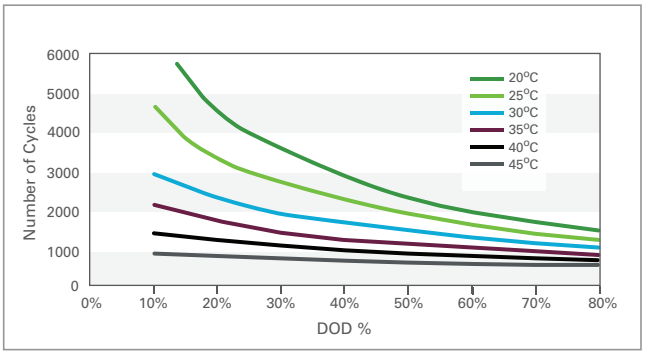
Lowest Total Cost of Ownership
SOPzV Tubular batteries provide the Lowest Total Cost of Ownership (TCO) amongst lead acid technologies. Further savings can be achieved in Hybrid systems through diesel abatement and peak shaving.

CERTIFIED QUALITY

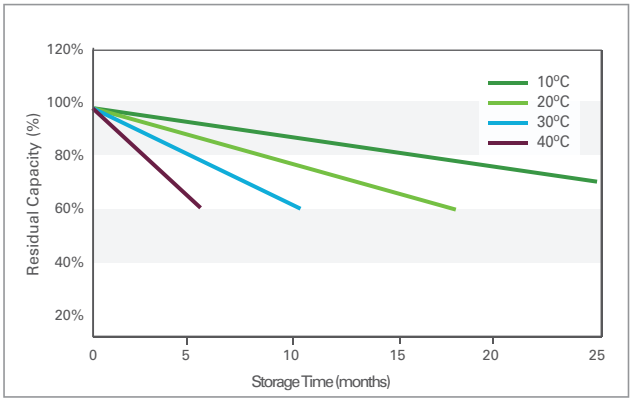
Discover and its manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards. OPzS and OPzV Tubular products are also tested in compliance to multiple international standards:

- 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)

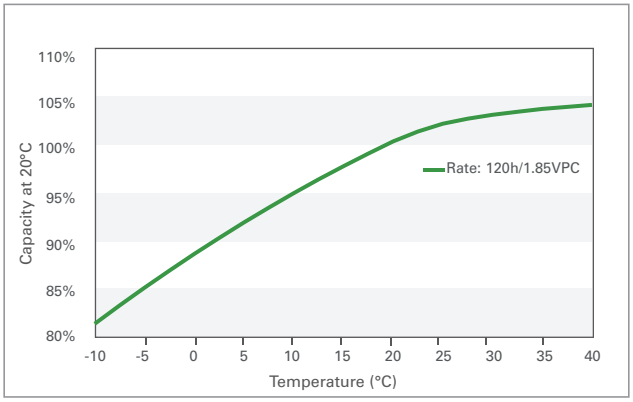
EXPECTED NUMBER OF CYCLES IN RELATION TO DEPTH OF DISCHARGE



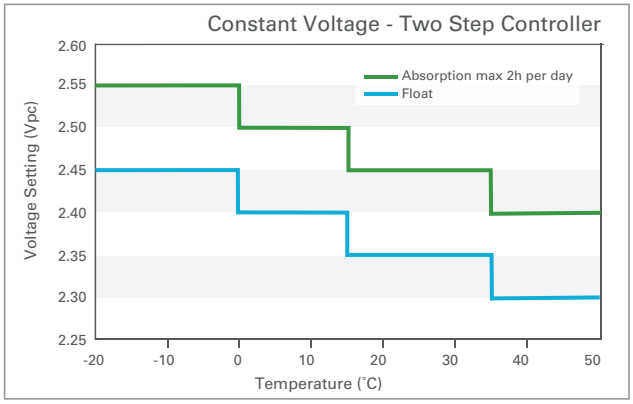
SELF-DISCHARGE CHARACTERISTICS



CAPACITY IN RELATION TO TEMPERATURE



CHARGE SETTINGS FOR STAND-ALONE SYSTEMS



CHARGE SETTINGS FOR HYBRID SYSTEMS