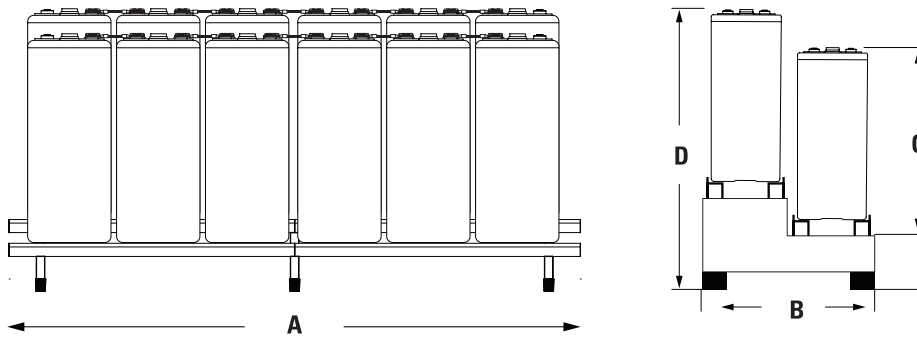


Tubular Gel OPzV 24V System

Discover[®] Tubular OPzV 24V Systems provide superior deep cycling performance and reliability for demanding commercial, industrial and residential applications. Whether it's for solar application as an investment, or as power source for critical operations, Discover has a reliable power solution.

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

| | | |
|--------------------|------------------|----------|
| Voltage | 24 | |
| Industry Reference | Tubular Gel OPzV | |
| Length (A) | 53.15 in | 1350 mm |
| Width (B) | 22.83 in | 580 mm |
| Height (C) | 40.12 in | 1019 mm |
| Total Height (D) | 44.05 in | 1119 mm |
| Weight | 3091 lbs | 1405 kgs |
| Cell(s) | 12 | |
| Cell Container | ABS | |
| Rack | Steel | |

ELECTRICAL SPECIFICATIONS

| | | |
|-------------------------------|------------------------------|-------------|
| Reference LVD / I10 | 20% DOD | 24.60V |
| | 50% DOD | 23.64V |
| | 80% DOD | 22.92V |
| Cycle Life | 20% DOD | 7000 cycles |
| | 50% DOD | 2950 cycles |
| | 80% DOD | 1900 cycles |
| Internal Resistance | 0.25 mΩ | |
| Short Circuit | 8500 A | |
| Self Discharge | 2-3% per month | |
| Maximum Operating Temperature | -35°C / -31°F 50°C / 122°F | |
| Electrolyte | Gel | |

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) | | | | |
| 2238 AH | 2227 AH | 2197 AH | 1782 AH | 1620 AH | 1470 AH | 1275 AH | 784 AH |

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

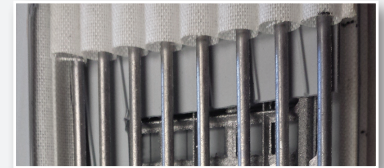
BENEFITS & FEATURES

Engineered to deliver 80% of rated capacity above 1.90 Volts.

Low cost per cycle. provide the Lowest Total Cost of Ownership amongst lead acid technologies. Further savings can be achieved in Hybrid systems through diesel abatement and peak shaving.

Complete System. Available in 24V and 48V configurations and ready to install (connectors and battery rack included). Flame retardant (UL 94-V0) containers available upon request.

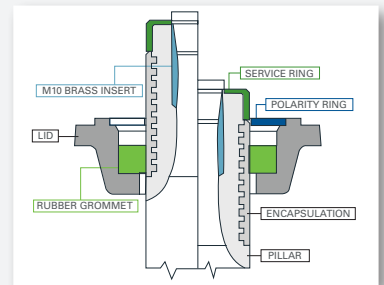
Tubular positive plates and proprietary alloy compositions to provide a 50% Depth of Discharge cycle life of up to 2950 cycles @ 20°C / 68°F.



Sealed technology. Gel electrolyte and safety pressure relief valve with integral flame arrestor. Battery containers are made of Acrylonitrile Butadiene Styrene (ABS).



Sliding Pole Terminals. Designed to accommodate natural grid growth occurrence throughout battery lifetime.



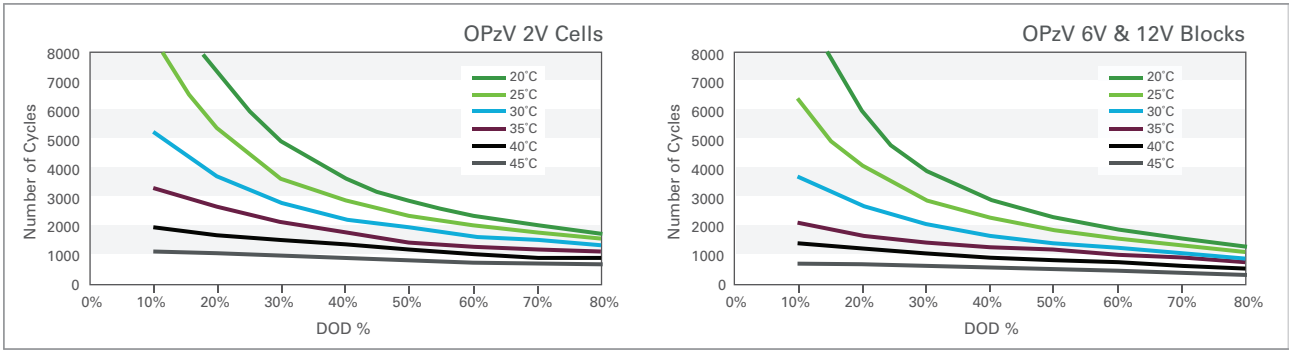
CERTIFIED QUALITY

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

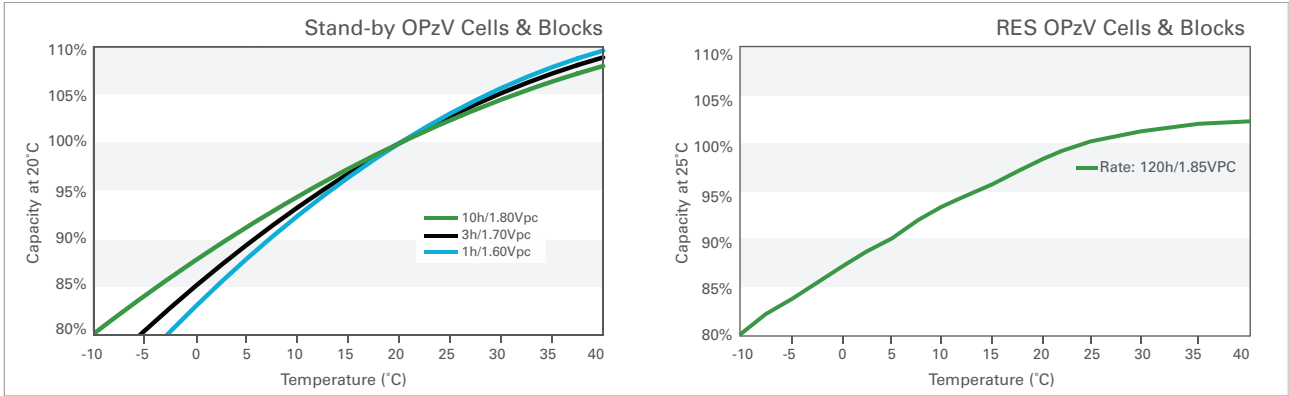
- ISO 9001/14001 and OSHA 18001 standards
- IEC 60896-21: Requirements for Photovoltaic Energy
- IEC 60896-22: Requirements for Valve Regulated Lead Acid batteries
- IEC 61427: Standard for photovoltaic energy systems
- DIN 40742: Standard for stationary tubular plate cells
- EN 50272-1 / 50272-2: Safety Requirements for stationary batteries
- UN 2800 (US DOT Compliance)
- Eurobat "Long Life" classification



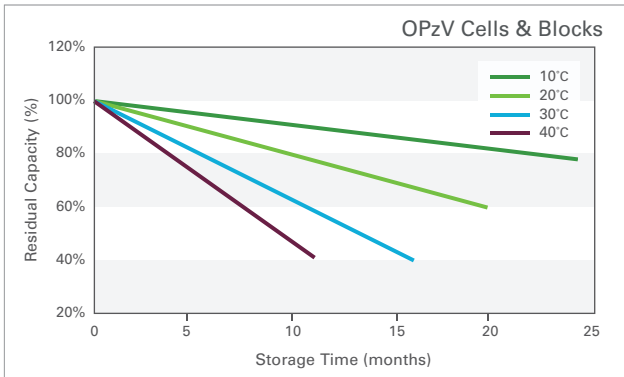
EXPECTED NUMBER OF CYCLES IN RELATION TO THE DEPTH OF DISCHARGE



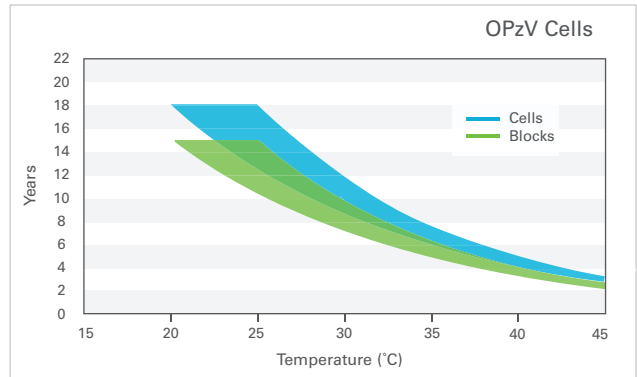
CAPACITY IN RELATION TO THE TEMPERATURE



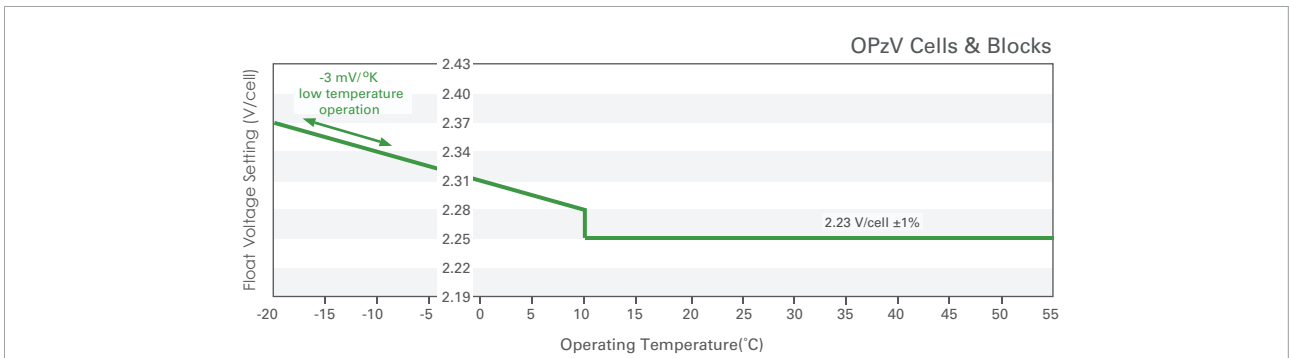
SELF-DISCHARGE CHARACTERISTICS



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.