**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 SPECIFICATIONS**

- Voltage: 24
- Industry Reference: Tubular Gel OPzV
- Length (A): 53.15 in / 1350 mm
- Width (B): 22.83 in / 580 mm
- Height (C): 34.21 in / 869 mm
- Total Height (D): 38.15 in / 969 mm
- Weight: 2279.2 lbs / 1036 kgs
- Cells: 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**
  - Short Circuit: 0.33 mΩ
  - Self Discharge: 2-3% per month

- **Maximum Operating Temperature**
  - -35°C / -31°F | 50°C / 122°F

- **Electrolyte**
  - Gel

**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

**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.

**MECHANICAL DRAWINGS**