

DIN Tubular Renewable Batteries

Low Maintenance and Extended Watering Intervals

Design Features and Benefits

- High capacity tubular constructed design for **high cycle applications**
- Optimized surface area to allow **higher voltages** in high rate and cold storage applications
- Hadi High pressure die cast positive splines **resist corrosion** which improves battery life (Dense grain structure of tubular grid using pressure die casting)
- Computer designed negative plate provides **more efficient current flow** to increase performance
- Uniform distribution of active material and weight is achieved through a wet filling process which **enhances plate uniformity**

Greater Acid Circulation

SBS's round tube design has greater acid circulation than square tube or flat plate positive plates. The round tube allows it to retain its shape as the plate expands during discharge.



ROUND TUBULAR



SQUARE TUBULAR



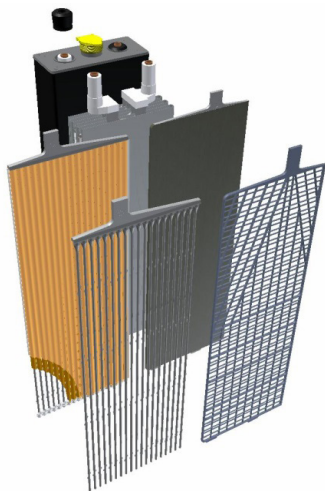
FLAT PLATE

Battery Watering Benefits – Low Maintenance

- **Flip top vent caps** for easy filling
- Over 3" of watering space **reduces watering intervals** (most other standard tubular and flat plates have between 1" and 2")



FLIP TOP COVER



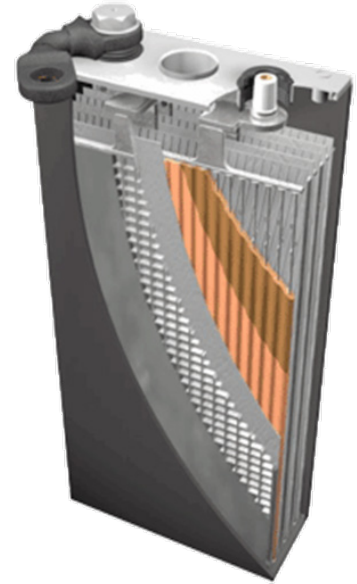
Other Features and Benefits

- **Round tubular gauntlets** provide superior resistance to active material shedding
- **Fully enveloped separators** reduce the chance of short circuiting
- Rubber terminal bushings absorb impact and shock
- **1" thick posts with brass insert** which connects to a highly conductive copper cell connector that allows for greater operating and charging current loads; ideal for opportunity and rapid charge applications
- Completely insulated copper cell connectors **prevent short circuiting** and have far less voltage leakage to the truck, this is especially important in higher voltage vehicles
- **Acid resistant** bolt on cell connectors and cables allow for field replacement of cells and cables by in-house maintenance or field personnel
- **Powder coated epoxy** steel trays on all surfaces and an additional rubberized inner coating



Optional Electrolyte Indicator & Single Point Watering System

Ultra-reliable electrolyte-level indicator with green blinking light and single wire connection



Cells built according to
DIN IEC 60254-1