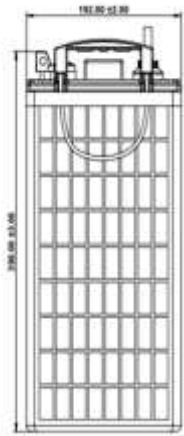
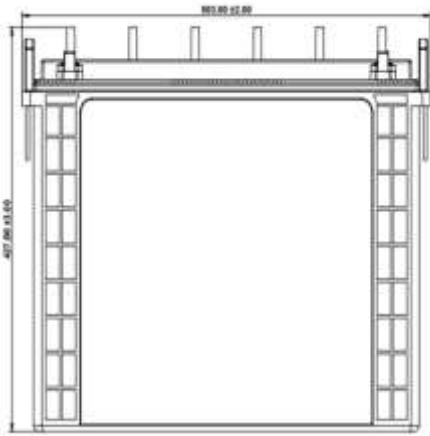


# TUBULAR BATTERY DATA SHEET

## Model: (12V240Ah)



## Features

- Robust Tubular with High Pressure die-casted spine- resulting low rate of corrosion.
- Spill Proof Vent and controlled acid fumes.
- Optimized Negative paste recipe for fast charge acceptance.
- Consistent backup throughout life.
- Low Self Discharge.
- Excellent performance on deep cyclic application as compare to AGM VRLA.
- Very High Performance & Service Life.
- Low water loss ( $\leq 4\%$ ).

## Battery Applications

Solar, Inverter and deep discharge applications.

## Battery Construction

|                        |                                |
|------------------------|--------------------------------|
| Battery container      | Polypropylene (PP)             |
| Type of Positive Plate | Tubular Positive               |
| Type of Negative Plate | Flat Pasted                    |
| Terminals              | Lead- Antimony Alloy           |
| Material of Separator  | PE                             |
| Electrolyte            | H <sub>2</sub> SO <sub>4</sub> |
| Sealing Method         | Heat Sealing                   |
| Supplied Condition     | Acid Filled                    |

# TUBULAR BATTERY DATA SHEET

## TECHNICAL SPECIFICATIONS

### SPECIFICATIONS

| Model                           |  | 12V 240Ah     |
|---------------------------------|--|---------------|
| Battery Testing Standard        |  | IS 13369:1992 |
| Rated Capacity at C20 hour Rate |  | 240Ah         |
| Battery Nominal Voltage         |  | 12V           |
| Dimensions                      | Length                                   | 503±2mm       |
|                                 | Width                                    | 192±2mm       |
|                                 | Height up to Terminal                    | 398 ±3mm      |
|                                 | Height up to Level Indicator             | 427 ±3mm      |
| Fully Charged Battery           | Electrolyte Specific Gravity at 27°C     | 1.255±0.005   |
|                                 | Battery Weight (with electrolyte) (± 1%) | 67.30 Kg      |
|                                 | Packed Battery Weight (± 1% )            | 69.10 Kg.     |

### BATTERY CHARGING

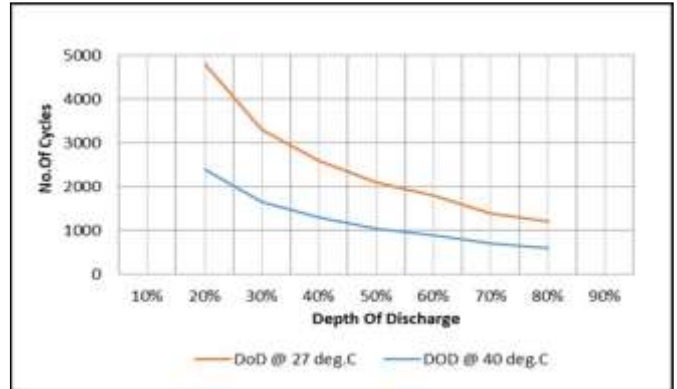
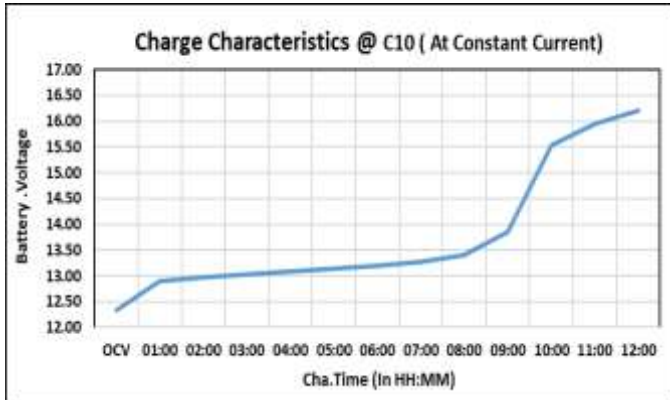
| Model                          |                          | 12V 240Ah     |
|--------------------------------|--------------------------|---------------|
| Constant Voltage Charging (CV) | Maximum Charging current | 24.0 A        |
|                                | Cyclic use               | 14 .40V       |
|                                | Float use                | 13.60 –13.80V |
|                                | Boost Charging           | 16.2V         |
|                                | Trickle Charging Current | 150 – 500mA   |

### ELECTRICAL PERFORMANCE

|   |                        |             |
|---|------------------------|-------------|
| Capacity at 27°C                                      | 20 Hour Rate to 10.80V | 240.0Ah     |
|   | 10 Hour Rate to 10.80V | 211.0 Ah    |
|   | 5 Hour Rate to 10.50V  | 176.0Ah     |
|   | 3 Hour Rate to 10.50V  | 151.0Ah     |
|   | 1 Hour Rate to 10.50V  | 106.0Ah     |
| 400Watt (33A) @10.5V Backup Time (In Minimum 3Cycles) |                        | 5Hrs 20Min. |
| Loss of capacity on storage per month at 27°C         |                        | < 5.0%      |
| Percentage (%) of Ampere-hour - Efficiency            |                        | > 90.0%     |
| Percentage (%) of Watt-hour - Efficiency              |                        | > 75.0%     |
| Cyclic life @80%DOD                                   |                        | 1500+       |

# TUBULAR BATTERY DATA SHEET

## DOD V/S LIFE CYCLE @ ambient temperatures



## Open circuit Voltage & Specific Gravity Vs SOC

| State of Charge | Specific Gravity | Voltage |
|-----------------|------------------|---------|
| 100%            | 1.260            | 12.7V   |
| 75%             | 1.225            | 12.4V   |
| 50%             | 1.190            | 12.1V   |
| 25%             | 1.155            | 12.0V   |
| 0%              | 1.120            | 11.8V   |

