

# STT Series-Tubular Flooded Batteries

STT2V900 (2V975AH)

## Specifications

|                                       |   |
|---------------------------------------|---|
| <b>Nominal Voltage</b>                | 2V  |
| <b>Nominal Capacity @ 77°F (25°C)</b> | 975 AH (8 hr. to 1.75 V/cell)<br>1319 AH (48 hr. to 1.80 V/cell)<br>1484 AH (120 hr. to 1.85 V/cell)<br>1546 AH (240 hr. to 1.85 V/cell)                                      |
| <b>Length</b>                         | 8.27 inches (210mm)   |
| <b>Width</b>                          | 9.18 inches (233mm)   |
| <b>Height (with vent cap)</b>         | 27.6 inches (701mm)   |
| <b>Weight</b>                         | Without Electrolyte 116.9 lb. (53.0kg)<br>With Electrolyte 161 lb. (73.0kg)   |
| <b>Electrolyte / Cell</b>             | 44.1 lb. (20.0kg)<br>4.5 gallons  |
| <b>Container &amp; Cover Material</b> | Styrene-acrylonitrile (SAN), Impact Resistant   |
| <b>Positive Plate Construction</b>    | Lead-Selenium / Low Antimony Tubular  |
| <b>Negative Plate Construction</b>    | Pasted Flat Radial  |
| <b>Post Design</b>                    | Leak-Proof with Brass Insert  |
| <b>Hardware / Torque Rating</b>       | M10 / 180–221 in. lb.   |
| <b>Preferred Operating Temp.</b>      | 68° to 77°F (20° to 25°C)   |
| <b>Operating Temp. Range</b>          | -4° to 130°F (-15° to 55°C)   |
| <b>Internal Resistance</b>            | Approx. 0.38mΩ  |
| <b>Short Circuit Current</b>          | 6950 Amps   |
| <b>Float Voltage</b>                  | 2.23V at 77°F (25°C)  |
| <b>Equalize Voltage</b>               | 2.33 to 2.40V at 77°F (25°C)  |
| <b>Max. Charge Current Allowed</b>    | 270 Amps  |
| <b>Self Discharge</b>                 | The STT Series batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |



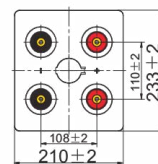
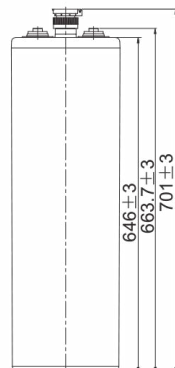
## Applications

- Utility
- Telecommunications
- Solar/Photovoltaic
- Oil and gas
- Railways

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## Constant Current Discharge (Amperes) at 77°F (25°C)

| F.V/Time   | 15 min | 30 min | 1 hr | 1.5 hr | 2 hr | 3 hr | 4 hr | 5 hr | 6 hr | 8 hr | 10 hr | 20 hr | 24 hr | 48 hr | 72 hr | 100 hr |
|------------|--------|--------|------|--------|------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| 1.70V/cell | 788    | 661    | 506  | 410    | 342  | 263  | 217  | 181  | 159  | 125  | 108   | 58.5  | –     | –     | –     | –      |
| 1.75V/cell | 684    | 590    | 470  | 387    | 329  | 256  | 212  | 176  | 155  | 122  | 105   | 56.5  | –     | –     | –     | –      |
| 1.80V/cell | 565    | 496    | 408  | 349    | 301  | 241  | 201  | 171  | 150  | 121  | 102   | 55.6  | 52.07 | 29.23 | 20.53 | 15.29  |
| 1.83V/cell | 489    | 436    | 368  | 320    | 280  | 224  | 189  | 162  | 145  | 117  | 98.3  | 54.8  | 50.07 | 28.34 | 19.99 | 14.93  |
| 1.85V/cell | 442    | 396    | 341  | 297    | 260  | 211  | 181  | 155  | 139  | 112  | 94.6  | 53.0  | 48.19 | 27.47 | 19.46 | 14.58  |



All product specifications and data are subject to change without notice.