

# Rolls

**S2-450GEL**  
2V 450 AH @C20

**TUBULAR POSITIVE - OPzV - VALVE REGULATED GEL BATTERY**



| CONSTANT CURRENT DISCHARGE |       |       |      |      |      |      |      |      |       |
|----------------------------|-------|-------|------|------|------|------|------|------|-------|
| CUT OFF VOLTAGE V/CELL     | 2HR   | 3HR   | 4HR  | 5HR  | 6HR  | 8HR  | 10HR | 20HR | 100HR |
| 1.75V                      | 145.7 | 105.9 | 82.7 | 71.4 | 64.3 | 49.7 | 42.8 | 22.5 | 5.1   |



**Rolls**  
BATTERY ENGINEERING  
BY SURRETTE BATTERY COMPANY

| SPECIFICATIONS                |                                    |                  |
|-------------------------------|------------------------------------|------------------|
| Nominal Voltage               |                                    | 2 Volt           |
| Rated Capacity (20 hour rate) |                                    | 450 AH           |
| Dimensions                    | Total Height (including terminals) | 506mm / 19.92"   |
|                               | Length                             | 145mm / 5.71"    |
|                               | Width                              | 206mm / 8.11"    |
|                               | Weight                             | 72.75lbs / 33 Kg |

| CHARACTERISTICS                                 |                                       |                                      |
|---|---------------------------------------|--------------------------------------|
| Capacity<br>77°F (25°C)                         | 100 Hour Rate                         | 514 AH                               |
|   | 20 Hour Rate                          | 450 AH                               |
|   | 10 Hour Rate                          | 428 AH                               |
| Internal Resistance                             | Full charged Battery 77°F (25°C)      | 0.42mΩ                               |
| Capacity Affected by Temperature<br>(20hr rate) | 104°F (40°C)                          | 105%                                 |
|   | 77°F (25°C)                           | 100%                                 |
|   | 32°F (0°C)                            | 89%                                  |
|   | 5°F (-15°C)                           | 79%                                  |
| Self-Discharge                                  | Less than 2% per month at 77°F (25°C) |                                      |
| Max Discharge<br>77°F (25°C)                    | 1700A (5s)                            |                                      |
| Terminal  | Standard                              | Thread insert & Bolt (F10-M8)        |
| Float Charging Voltage Range                    |                                       | 2.25 to 2.3 VDC/unit Average at 25°C |
| Max Charge Current                              |                                       | 84 Amps                              |

