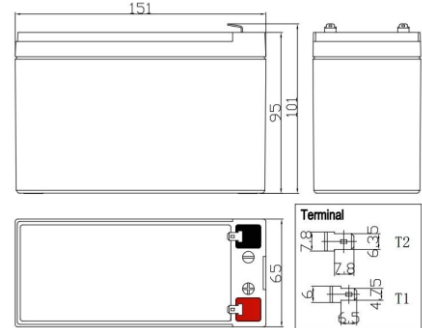


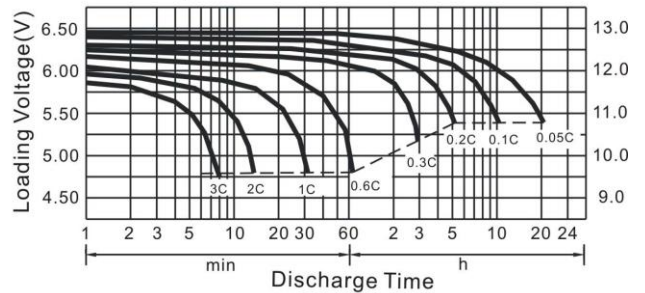
# 12V 8.0Ah GEL Battery



## Specifications

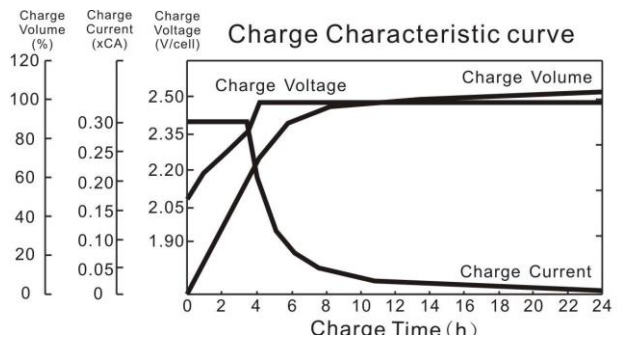
|   |                     |                    |
|---|---------------------|--------------------|
| <b>Nominal Voltage</b>                  |                     | <b>12V</b>         |
| <b>Rated Capacity 77°F(25°C) (20HR)</b> |                     | <b>8.0Ah</b>       |
| <b>Dimensions (mm/inch)</b>             | <b>Length</b>       | <b>151 (5.95)</b>  |
|   | <b>Width</b>        | <b>65 (2.56)</b>   |
|   | <b>Height</b>       | <b>95 (3.74)</b>   |
|   | <b>Total Height</b> | <b>101 (3.98)</b>  |
| <b>Approx. Weight (kg/lbs)</b>          |                     | <b>2.45 (5.40)</b> |
| <b>Terminal</b>                         |                     | <b>T1/T2</b>       |

Discharge Characteristics 77°F (25°C)

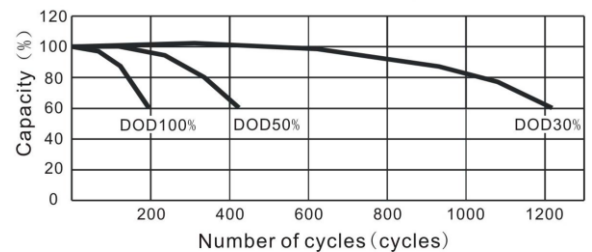


## Characteristic

|   |  |  |
|---|--|--|
| <b>Capacity 77°F(25°C)</b>                        | <b>20HR (0.400A)</b>                   | <b>8.00Ah</b>                                  |
|   | <b>10HR (0.744A)</b>                   | <b>7.44Ah</b>                                  |
|   | <b>5HR (1.36A)</b>                     | <b>6.80Ah</b>                                  |
|   | <b>1HR (4.88A)</b>                     | <b>4.88Ah</b>                                  |
|   | <b>15 min rate (14.8A)</b>             | <b>3.70Ah</b>                                  |
| <b>Internal Resistance</b>                        | <b>Full Charged Battery 77°F(25°C)</b> | <b>Approx. 20mΩ</b>                            |
| <b>Temperature dependence of capacity (20HR)</b>  | <b>104°F(40°C)</b>                     | <b>105%</b>                                    |
|   | <b>77°F(25°C)</b>                      | <b>100%</b>                                    |
|   | <b>32°F(0°C)</b>                       | <b>85%</b>                                     |
|   | <b>-4°F(-20°C)</b>                     | <b>60%</b>                                     |
| <b>Self-Discharge 68°F(20°C) (Capacity after)</b> | <b>3 months</b>                        | <b>90%</b>                                     |
|   | <b>6 months</b>                        | <b>80%</b>                                     |
|   | <b>12 months</b>                       | <b>60%</b>                                     |
| <b>Max. Discharge Current, 77°F(25°C)</b>         |  | <b>120A(5s)</b>                                |
| <b>Floating design life, 77°F(25°C)</b>           |  | <b>6 years</b>                                 |
| <b>Constant Voltage Charge, 77°F(25°C)</b>        | <b>Cycle</b>                           | <b>14.5~14.9V(-24mV/°C) max. current: 2.4A</b> |
|   | <b>Float</b>                           | <b>13.6~13.8V(-18mV/°C)</b>                    |



Cycle service life in relation to depth of discharge



Constant Current Discharge Characteristics (A), 77°F(25°C)

| F.V/TIME   | 5min | 10min | 15min | 30min | 60min | 2H   | 3H   | 5H    | 8H    | 10H   | 20H   |
|------------|------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1.60V/cell | 30.4 | 19.20 | 14.80 | 8.00  | 5.06  | 2.86 | 2.09 | 1.408 | 0.936 | 0.768 | 0.412 |
| 1.70V/cell | 28.9 | 18.24 | 14.14 | 7.65  | 4.88  | 2.74 | 2.04 | 1.384 | 0.928 | 0.760 | 0.408 |
| 1.75V/cell | 28.3 | 17.84 | 13.88 | 7.49  | 4.79  | 2.70 | 2.00 | 1.360 | 0.912 | 0.744 | 0.404 |
| 1.80V/cell | 27.8 | 17.44 | 13.63 | 7.34  | 4.71  | 2.65 | 1.97 | 1.336 | 0.904 | 0.736 | 0.400 |

Constant Wattage Discharge Characteristics (Watt), 77°F(25°C)

| F.V/TIME   | 5min | 10min | 15min | 30min | 60min | 2H   | 3H   | 5H    | 8H    | 10H   | 20H   |
|------------|------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1.60V/cell | 55.2 | 35.20 | 27.38 | 14.94 | 9.54  | 5.42 | 4.00 | 2.720 | 1.832 | 1.512 | 0.816 |
| 1.70V/cell | 53.0 | 33.76 | 26.38 | 14.40 | 9.27  | 5.26 | 3.94 | 2.696 | 1.824 | 1.504 | 0.808 |
| 1.75V/cell | 52.4 | 33.28 | 26.14 | 14.22 | 9.18  | 5.22 | 3.90 | 2.672 | 1.808 | 1.488 | 0.804 |
| 1.80V/cell | 51.8 | 32.88 | 25.90 | 14.08 | 9.11  | 5.16 | 3.87 | 2.648 | 1.792 | 1.472 | 0.800 |