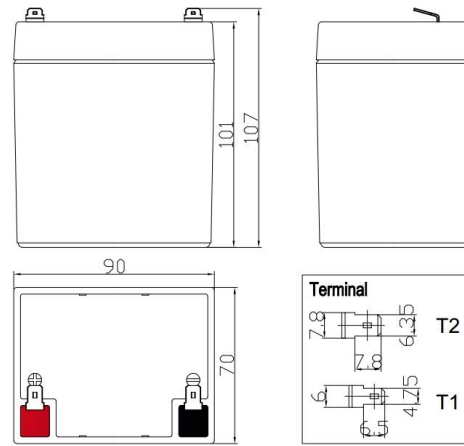


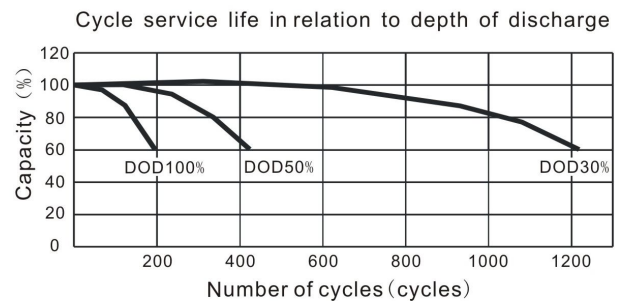
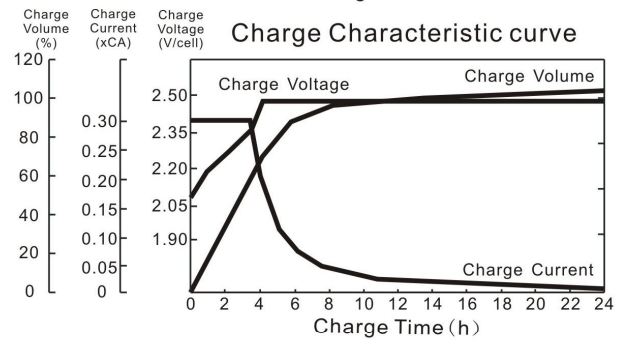
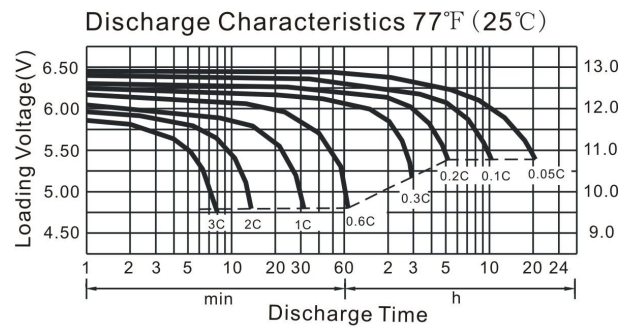


### Specifications

|                                  |              |             |
|----------------------------------|--------------|-------------|
| Nominal Voltage                  |              | 12V         |
| Rated Capacity 77°F(25°C) (20HR) |              | 4.0Ah       |
| Dimensions (mm/inch)             | Length       | 90 (3.54)   |
|                                  | Width        | 70 (2.76)   |
|                                  | Height       | 101 (3.98)  |
|                                  | Total Height | 107 (4.21)  |
| Approx. Weight (kg/lbs)          |              | 1.23 (2.71) |
| Terminal                         |              | T1/T2       |

### Characteristic

|                                            |                                 |                                         |
|--------------------------------------------|---------------------------------|-----------------------------------------|
| Capacity 77°F(25°C)                        | 20HR (0.200A)                   | 4.00Ah                                  |
|                                            | 10HR (0.372A)                   | 3.72Ah                                  |
|                                            | 5HR (0.680A)                    | 3.40Ah                                  |
|                                            | 1HR (2.440A)                    | 2.44Ah                                  |
|                                            | 15 min rate (7.40A)             | 1.85Ah                                  |
| Internal Resistance                        | Full Charged Battery 77°F(25°C) | Approx. 55mΩ                            |
| Temperature dependence of capacity (20HR)  | 104°F(40°C)                     | 102%                                    |
|                                            | 77°F(25°C)                      | 100%                                    |
|                                            | 32°F(0°C)                       | 85%                                     |
|                                            | 5°F(-15°C)                      | 65%                                     |
| Self-Discharge 68°F(20°C) (Capacity after) | 3 months                        | 90%                                     |
|                                            | 6 months                        | 80%                                     |
|                                            | 12 months                       | 60%                                     |
| Max. Discharge Current, 77°F(25°C)         |                                 | 60A(5s)                                 |
| Floating design life, 77°F(25°C)           |                                 | 5 years                                 |
| Constant Voltage Charge, 77°F(25°C)        | Cycle                           | 14.5~14.9V(-24mV/°C) max. current: 1.2A |
|                                            | Float                           | 13.6~13.8V(-18mV/°C)                    |



### 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 | 15.20 | 9.60  | 7.40  | 4.00  | 2.53  | 1.43 | 1.05 | 0.704 | 0.468 | 0.384 | 0.206 |
| 1.70V/cell | 14.49 | 9.12  | 7.07  | 3.83  | 2.44  | 1.37 | 1.02 | 0.692 | 0.464 | 0.380 | 0.204 |
| 1.75V/cell | 14.15 | 8.92  | 6.94  | 3.75  | 2.40  | 1.35 | 1.00 | 0.680 | 0.456 | 0.372 | 0.202 |
| 1.80V/cell | 13.90 | 8.72  | 6.82  | 3.67  | 2.36  | 1.33 | 0.99 | 0.668 | 0.452 | 0.368 | 0.200 |

### 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 | 27.60 | 17.60 | 13.69 | 7.47  | 4.77  | 2.71 | 2.00 | 1.360 | 0.916 | 0.756 | 0.408 |
| 1.70V/cell | 26.50 | 16.88 | 13.19 | 7.20  | 4.64  | 2.63 | 1.97 | 1.348 | 0.912 | 0.752 | 0.404 |
| 1.75V/cell | 26.20 | 16.64 | 13.07 | 7.11  | 4.59  | 2.61 | 1.95 | 1.336 | 0.904 | 0.744 | 0.402 |
| 1.80V/cell | 25.90 | 16.44 | 12.95 | 7.04  | 4.56  | 2.58 | 1.94 | 1.324 | 0.896 | 0.736 | 0.400 |