

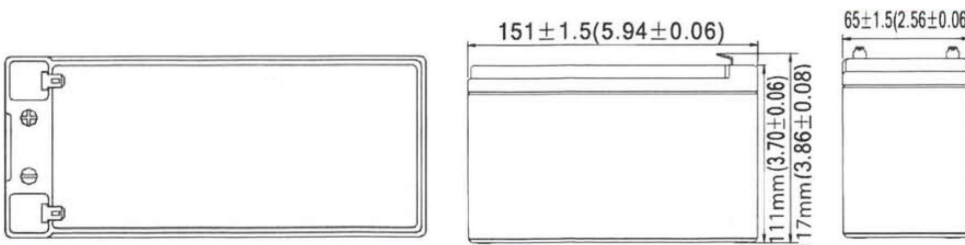
|  |   |
|--|---|
| <b>Capacity (25°C)</b>                   | 20HR (0.45A, 10.5V) = 9.00AH<br>10HR (0.866A, 10.5V) = 8.66AH<br>5HR (1.62A, 10.5V) = 8.10AH<br>1HR (5.39A, 10.5V) = 5.39AH |
| <b>Operating Temperature Range</b>       | Charge = -15°C to +50°C<br>Discharge = -20°C to +60°C<br>Storage = -20°C to +60°C   |
| <b>Approx. Weight</b>                    | 3.00kg  |
| <b>Internal Resistance</b>               | Fully charged at 25°C : ≤ 23mΩ  |
| <b>Self Discharge</b>                    | 3% per month at (25°C)  |
| <b>Capacity Affected by Temp. (20HR)</b> | 40°C = 102%<br>25°C = 100%<br>0°C = 85%<br>-15°C = 65%  |
| <b>Charge Voltage (25°C)</b>             | Cycle Use = 14.4-14.7V (-30mV/°C)<br>Max Current = 2.70A<br>Float Use = 13.5-13.8V (-20mV/°C)                               |
| <b>Dimensions (Nominal)</b>              | Length: 151mm (5.94 in.)<br>Width: 65mm (2.56 in.)<br>Height: 111mm (4.37 in.)<br>Total Height: 117mm (4.61 in.)            |

- Completely sealed, maintenance-free, low self-discharge
- State of the art AGM and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 5 years
- Cycle use: Up to 260 cycles at 100% DoD
- Cycle use: Up to 500 Cycles at 50% DoD
- Container and Cover Material – ABS UL94-HB (optional UL94-V0)
- Transportation - D.O.T., I.A.T.A. & F.A.A.




## ■ APPLICATIONS

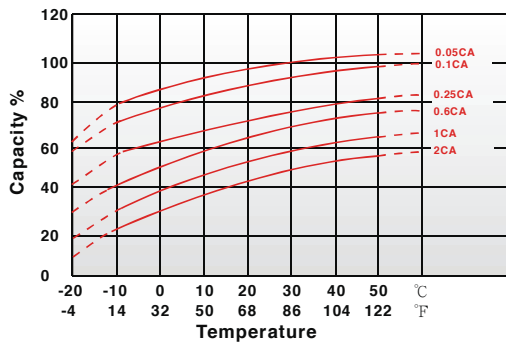
- |                    |                          |                           |
|--------------------|--------------------------|---------------------------|
| Multipurpose       | Alarm & Security System  | DC Power Supply           |
| Telecommunications | Comm. Power Supply       | Auto Control System       |
| UPS                | Elec. Power System (EPS) | Traffic Control Signaling |
| Medical Equipment  | Emergency Backup Power   | Emergency Lighting        |



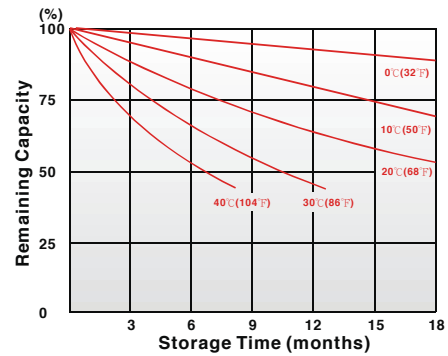
### Terminal Type

**F2**  0.250" x 0.032" quick disconnect tabs

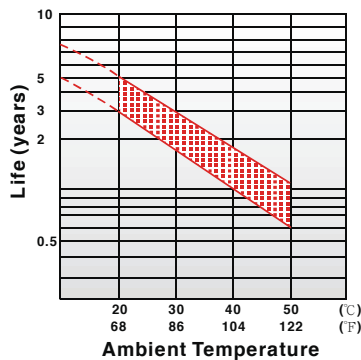
**Effect of Temperature on Capacity 25°C (77°F)**



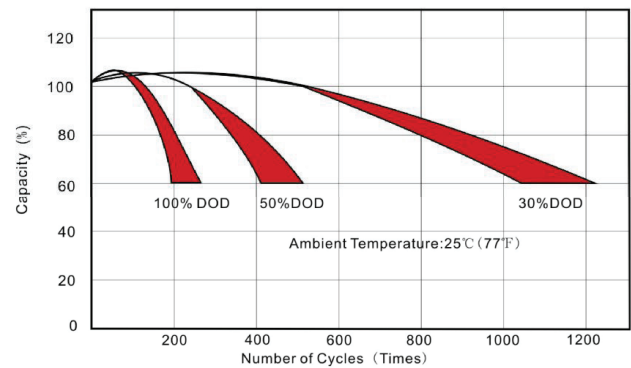
**Capacity Retention Characteristic**



**Trickle (or Float) Service Life**



**Cycle Service Life**



**Regular Charge / Float Charge / Storage**

- Charging voltage temperature compensation needs to be applied when temperature is below 0°C and above +45°C.
- Charging in temperatures below 0°C, the charge current should not exceed 0.1C as the core battery temperature can increase rapidly and damage the battery.
- During floating charge or when in storage, the life of the battery is cut in half for every 8°C temperature rise over 25°C.

**Discharge**

- Discharging at elevated temperatures improves performance of the battery yet shortens its life due to accelerated aging.
- Low temperature affects the battery internal resistance and lowers its capacity. The battery provides 100% specified capacity at 25°C. It will deliver 50% of its stated capacity at -20°C with 0.1C discharge current and 20% with 2C discharge current.

**Constant Current Discharge (A) at 25°C (77°F)**

| F.V/Time   | 5min  | 10min | 15min | 30min | 1h   | 2h   | 3h   | 4h    | 5h    | 8h    | 10h   | 20h   |
|------------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|
| 1.85V/Cell | 25.69 | 18.51 | 14.16 | 8.95  | 5.19 | 2.98 | 2.28 | 1.817 | 1.560 | 1.272 | 0.834 | 0.433 |
| 1.80V/Cell | 26.18 | 18.86 | 14.43 | 9.12  | 5.29 | 3.03 | 2.32 | 1.852 | 1.590 | 1.296 | 0.850 | 0.442 |
| 1.75V/Cell | 26.67 | 19.22 | 14.70 | 9.29  | 5.39 | 3.09 | 2.36 | 1.887 | 1.620 | 1.320 | 0.866 | 0.450 |
| 1.70V/Cell | 29.07 | 20.37 | 15.59 | 9.66  | 5.49 | 3.14 | 2.40 | 1.920 | 1.648 | 1.344 | 0.881 | 0.458 |
| 1.67V/Cell | 32.01 | 22.10 | 16.91 | 10.20 | 5.54 | 3.18 | 2.43 | 1.940 | 1.666 | 1.358 | 0.891 | 0.463 |
| 1.60V/Cell | 34.67 | 23.25 | 17.79 | 10.64 | 5.60 | 3.21 | 2.46 | 1.961 | 1.684 | 1.373 | 0.900 | 0.468 |

**Constant Power Discharge (W) at 25°C (77°F)**

| F.V/Time   | 5min  | 10min | 15min | 30min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/Cell | 50.09 | 36.09 | 27.62 | 17.45 | 10.13 | 5.80 | 4.44 | 3.54 | 3.04 | 2.48 | 1.63 | 0.85 |
| 1.80V/Cell | 51.05 | 36.78 | 28.14 | 17.78 | 10.32 | 5.91 | 4.52 | 3.61 | 3.10 | 2.53 | 1.66 | 0.86 |
| 1.75V/Cell | 52.01 | 37.47 | 28.67 | 18.12 | 10.51 | 6.02 | 4.61 | 3.68 | 3.16 | 2.57 | 1.69 | 0.88 |
| 1.70V/Cell | 56.69 | 39.72 | 30.39 | 18.84 | 10.70 | 6.13 | 4.69 | 3.74 | 3.21 | 2.62 | 1.72 | 0.89 |
| 1.67V/Cell | 62.41 | 43.09 | 32.97 | 19.89 | 10.81 | 6.20 | 4.74 | 3.78 | 3.25 | 2.65 | 1.74 | 0.90 |
| 1.60V/Cell | 67.61 | 45.34 | 34.00 | 20.74 | 10.93 | 6.26 | 4.79 | 3.82 | 3.28 | 2.68 | 1.76 | 0.91 |