

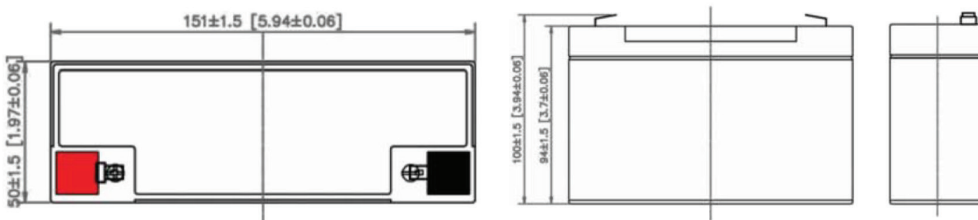
| | |
|--|--|
| Capacity (25°C) | 20HR (0.50A, 5.25V) = 10.0AH 10HR (0.96A, 5.25V) = 9.60AH 5HR (1.80A, 5.25V) = 9.00AH 1HR (5.99A, 5.25V) = 5.99AH |
| Operating Temperature Range | Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C |
| Approx. Weight | 1.55kg |
| Internal Resistance | Fully charged at 25°C : ≤ 18mΩ |
| Self Discharge | 2% per month at (25°C) |
| Capacity Affected by Temp. (20HR) | 40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65% |
| Charge Voltage (25°C) | Cycle Use = 7.20-7.35V (-15mV/°C) Max Current = 3.0A Float Use = 6.75-6.90V (-10mV/°C) |
| Dimensions (Nominal) | Length: 151mm (5.94 in.) Width: 50mm (1.97 in.) Height: 94mm (3.70 in.) Total Height: 100mm (3.94 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

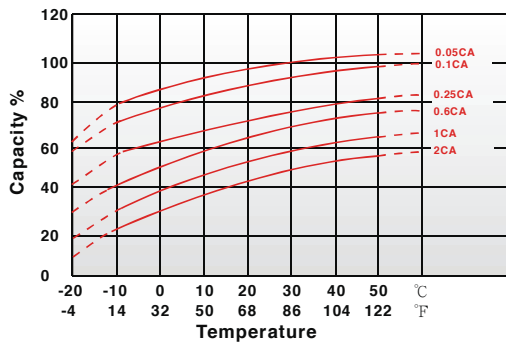
| | | |
|--------------------|--------------------------|---------------------------|
| Multipurpose | Alarm & Security System | DC Power Supply |
| Telecommunications | Comm. Power Supply | Auto Control System |
| UPS | Elec. Power System (EPS) | Traffic Control Signaling |
| Medical Equipment | Emergency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



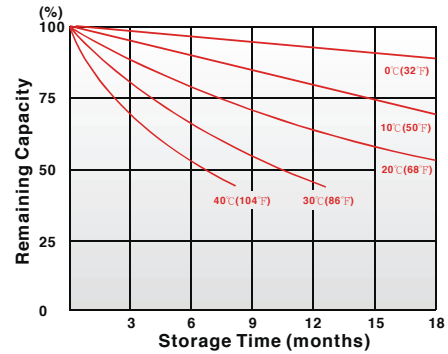
Terminal Type

- F1**  0.187" x 0.032" quick disconnect tabs
- F2**  0.250" x 0.032" quick disconnect tabs

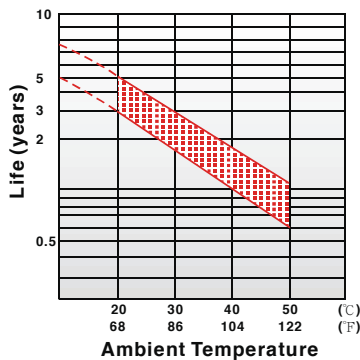
Effect of Temperature on Capacity 25°C (77°F)



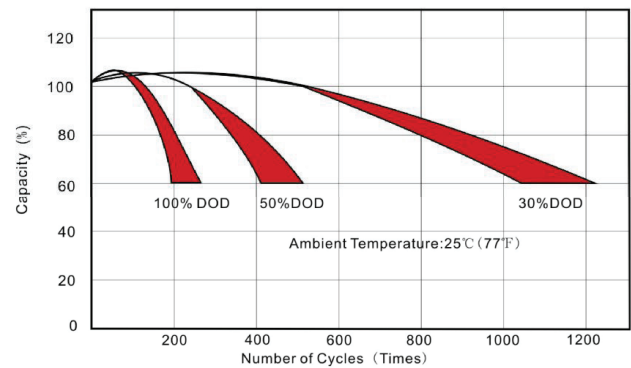
Capacity Retention Characteristic



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 | 27.58 | 20.37 | 14.77 | 9.94 | 5.77 | 3.31 | 2.53 | 2.019 | 1.733 | 1.413 | 0.927 | 0.482 |
| 1.80V/Cell | 28.11 | 20.76 | 15.05 | 10.13 | 5.88 | 3.37 | 2.58 | 2.058 | 1.767 | 1.440 | 0.944 | 0.491 |
| 1.75V/Cell | 28.63 | 21.15 | 15.34 | 10.32 | 5.99 | 3.43 | 2.62 | 2.096 | 1.800 | 1.467 | 0.962 | 0.500 |
| 1.70V/Cell | 31.21 | 22.42 | 16.26 | 10.74 | 6.10 | 3.49 | 2.67 | 2.133 | 1.831 | 1.493 | 0.979 | 0.509 |
| 1.67V/Cell | 34.36 | 24.32 | 17.64 | 11.34 | 6.16 | 3.53 | 2.70 | 2.156 | 1.851 | 1.509 | 0.990 | 0.514 |
| 1.60V/Cell | 37.22 | 25.59 | 18.56 | 11.82 | 6.23 | 3.57 | 2.73 | 2.179 | 1.871 | 1.525 | 1.000 | 0.520 |

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 | 53.78 | 39.72 | 28.81 | 19.39 | 11.25 | 6.45 | 4.93 | 3.94 | 3.38 | 2.76 | 1.81 | 0.94 |
| 1.80V/Cell | 54.81 | 40.48 | 29.36 | 19.76 | 11.47 | 6.57 | 5.02 | 4.01 | 3.44 | 2.81 | 1.84 | 0.96 |
| 1.75V/Cell | 55.84 | 41.24 | 29.91 | 20.13 | 11.68 | 6.69 | 5.12 | 4.09 | 3.51 | 2.86 | 1.88 | 0.98 |
| 1.70V/Cell | 60.86 | 43.72 | 31.70 | 20.93 | 11.89 | 6.81 | 5.21 | 4.16 | 3.57 | 2.91 | 1.91 | 0.99 |
| 1.67V/Cell | 67.00 | 47.43 | 34.39 | 22.10 | 12.01 | 6.88 | 5.26 | 4.20 | 3.61 | 2.94 | 1.93 | 1.00 |
| 1.60V/Cell | 72.59 | 49.90 | 36.19 | 23.05 | 12.14 | 6.96 | 5.32 | 4.25 | 3.65 | 2.97 | 1.95 | 1.01 |