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| Capacity (25°C) | 20HR (0.30A, 5.25V) = 6.00AH 10HR (5.60A, 5.25V) = 5.60AH 5HR (0.99A, 5.25V) = 4.95AH 1HR (3.44A, 5.25V) = 3.44AH |
| Operating Temperature Range | Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C |
| Approx. Weight | 1.15kg |
| Internal Resistance | Fully charged at 25°C : ≤ 20mΩ |
| Self Discharge | 3% 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 = 7.2-7.35V (-15mV/°C) Max Current = 1.81A Float Use = 6.75-6.9V (-10mV/°C) |
| Dimensions (Nominal) | Length: 85mm (3.35 in.) Width: 49mm (1.93 in.) Height: 112mm (4.41 in.) Total Height: 118mm (4.65 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.

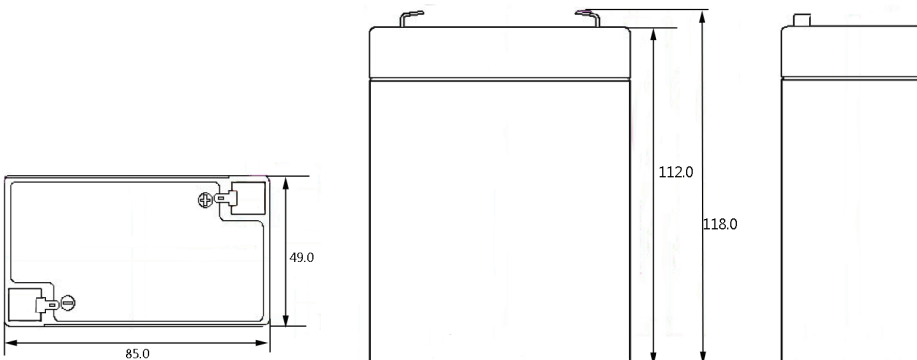


■ APPLICATIONS



Multipurpose
Telecommunications
UPS
Medical Equipment

Alarm & Security System
Comm. Power Supply
Elec. Power System (EPS)
Emergency Backup Power

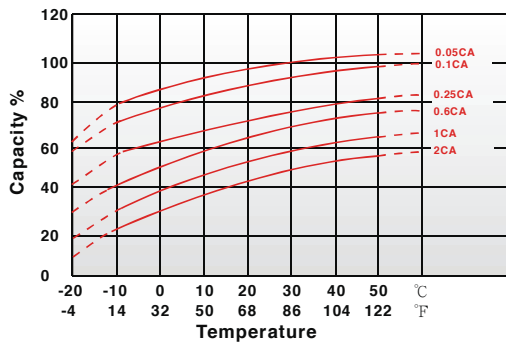
DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting



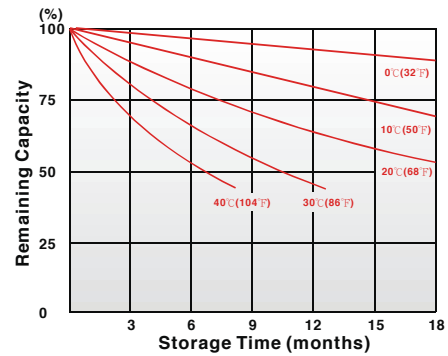
Terminal Type

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

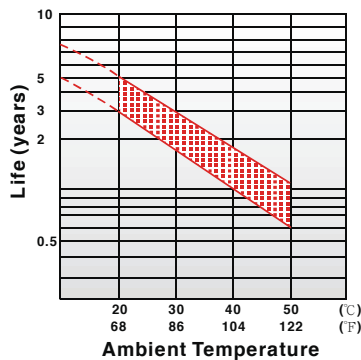
Effect of Temperature on Capacity 25°C (77°F)



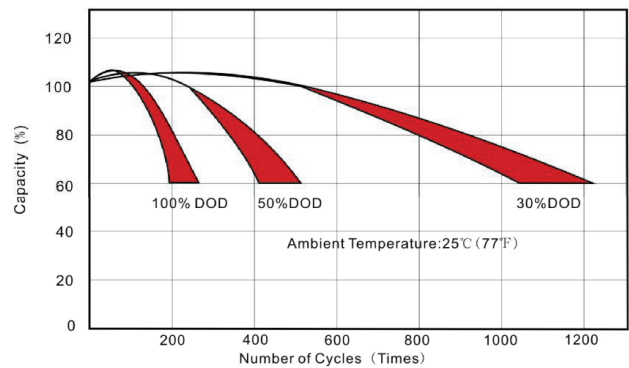
Capacity Retention Characteristic



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 | 6h | 10h | 20h |
|------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.80V/Cell | 17.4 | 11.4 | 9.3 | 6.1 | 3.28 | 1.89 | 1.46 | 1.18 | 0.93 | 0.84 | 0.54 | 0.29 |
| 1.75V/Cell | 18.8 | 12.3 | 9.8 | 6.2 | 3.44 | 1.97 | 1.49 | 1.21 | 0.99 | 0.86 | 0.56 | 0.30 |
| 1.70V/Cell | 20.2 | 13.3 | 10.3 | 6.4 | 3.55 | 2.02 | 1.53 | 1.23 | 1.02 | 0.88 | 0.57 | 0.30 |
| 1.67V/Cell | 21.6 | 14.3 | 10.8 | 6.5 | 3.63 | 2.04 | 1.59 | 1.28 | 1.04 | 0.90 | 0.58 | 0.30 |
| 1.60V/Cell | 23.0 | 15.3 | 11.3 | 6.7 | 3.67 | 2.13 | 1.64 | 1.32 | 1.08 | 0.92 | 0.59 | 0.31 |

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

| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.80V/Cell | 35.1 | 23.2 | 18.8 | 12.5 | 7.24 | 3.97 | 2.86 | 2.35 | 2.29 | 1.64 | 1.07 | 0.55 |
| 1.75V/Cell | 36.8 | 24.9 | 19.9 | 12.8 | 7.35 | 4.03 | 2.89 | 2.36 | 2.31 | 1.68 | 1.09 | 0.57 |
| 1.70V/Cell | 39.2 | 25.8 | 20.8 | 13.1 | 7.48 | 4.08 | 2.90 | 2.38 | 2.31 | 1.71 | 1.10 | 0.59 |
| 1.67V/Cell | 40.0 | 26.7 | 21.4 | 13.2 | 7.50 | 4.10 | 2.90 | 2.38 | 2.32 | 1.74 | 1.11 | 0.60 |
| 1.60V/Cell | 41.1 | 26.8 | 21.7 | 13.4 | 7.52 | 4.13 | 2.92 | 2.39 | 2.33 | 1.78 | 1.12 | 0.63 |