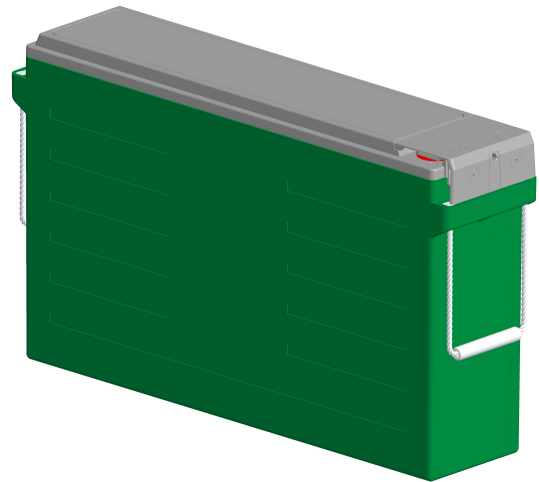


**Pure Lead Carbon SLA Battery**

|  |   |
|--|---|
| <b>Capacity (25°C)</b>                   | 20HR (10.8A, 10.5V) = 216AH<br>10HR (21.3A, 10.5V) = 213AH<br>5HR (39.3A, 10.5V) = 196.5AH<br>1HR (139.7A, 10.5V) = 139.7AH |
| <b>Operating Temperature Range</b>       | Charge = -20°C to +45°C<br>Discharge = -40°C to +65°C<br>Storage = -20°C to +60°C   |
| <b>Approx. Weight</b>                    | 60.5 kg (133 lbs)   |
| <b>Max. Discharge [A]</b>                | 2520  |
| <b>Self Discharge</b>                    | 4% per month at (25°C)  |
| <b>Capacity Affected by Temp. (20HR)</b> | 40°C = 103%<br>25°C = 100%<br>0°C = 86%<br>-15°C = 65%  |
| <b>Charge Voltage (25°C)</b>             | Cycle Use = 14.1-14.4V (-3mV/cell/°C)<br>Max Current = 210A<br>Float Use = 13.6V (-3mV/Cell/°C)                             |
| <b>Dimensions (Nominal)</b>              | Length: 559mm (22.0 in)<br>Width: 125mm (4.9 in)<br>Height: 328mm (12.9 in)<br>Total Height: 328mm (12.9 in)                |

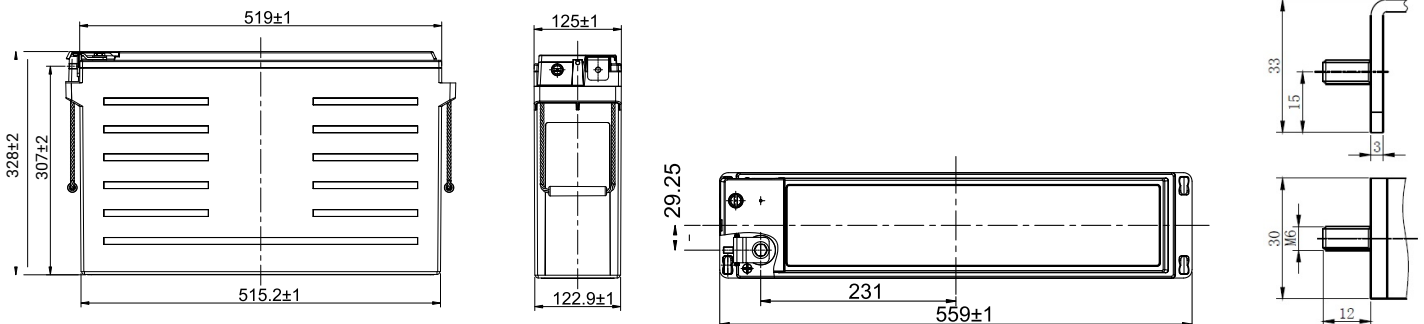
- Completely sealed, maintenance-free, low self-discharge
- State of the art Pure Lead Carbon technology PLC
- Non-spillable, stable quality and high reliability with excellent re-charging performance - 90% SoC in 1 hour.
- Floating and standby use up to: 20 years
- Cycle use: Up to 600 cycles at 100% DoD
- Cycle Use: Up to 1600 cycles at 50% DoD
- Container and Cover Material- PC/ABS UL94- V0
- Transportation - D.O.T., I.A.T.A. & FAA



**■ APPLICATIONS**

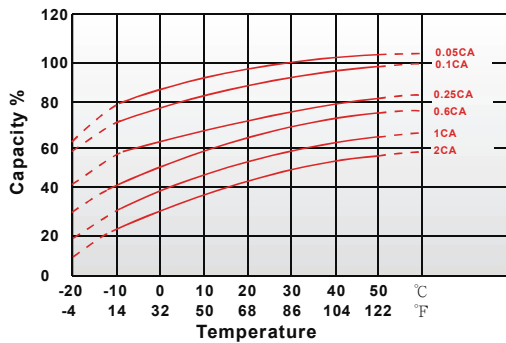
- |                    |                          |                           |
|--------------------|--------------------------|---------------------------|
| Multipurpose       | Electric Vehicle         | DC Power Supply           |
| Telecommunications | Comm. Power Supply       | Auto Control System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

**Terminal Type M6**

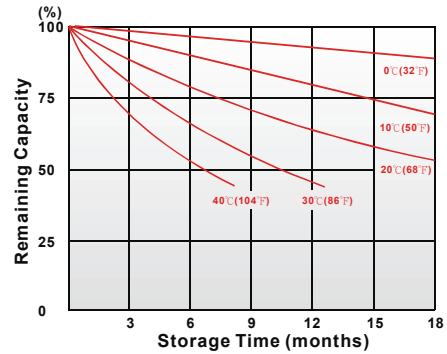


REV B

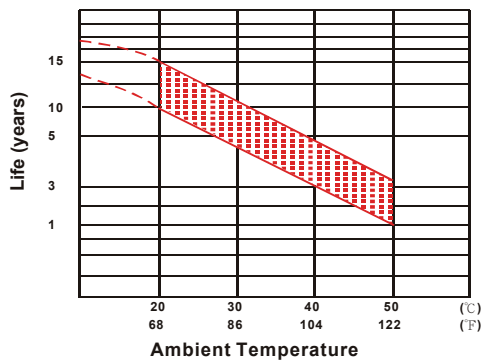
**Effect of Temperature on Capacity 25°C (77°F)**



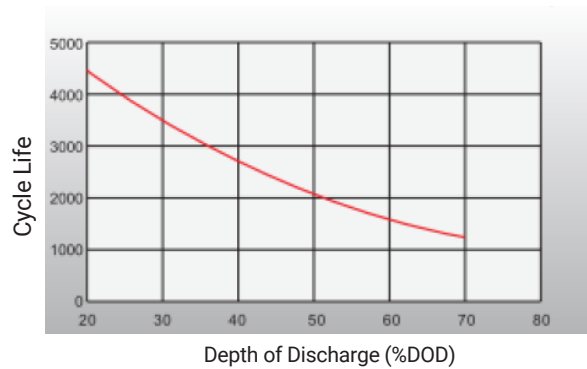
**Capacity Retention Characteristic**



**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 will operate in temperature lower than -20°C when fully charged.
- The battery provides 100% specified capacity at 25°C. At -40°C the battery will deliver 35% of its stated capacity @10HR discharge rate and 10% of its stated capacity @1HR discharge rate.

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

| F.V/Time   | 10min | 15min | 20min | 30min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 352.8 | 294.0 | 264.6 | 205.8 | 128.8 | 76.6 | 55.0 | 45.4 | 37.5 | 25.0 | 20.4 | 10.7 |
| 1.80V/cell | 390.6 | 319.2 | 283.5 | 218.2 | 135.4 | 79.5 | 56.9 | 47.0 | 38.7 | 25.8 | 21.0 | 10.8 |
| 1.75V/cell | 415.8 | 336.0 | 296.1 | 227.9 | 139.7 | 81.2 | 57.9 | 47.9 | 39.3 | 26.3 | 21.3 | 10.8 |
| 1.70V/cell | 441.0 | 352.8 | 308.7 | 236.1 | 142.9 | 82.4 | 58.7 | 48.3 | 39.8 | 26.5 | 21.6 | 10.9 |
| 1.67V/cell | 466.2 | 369.6 | 321.3 | 240.2 | 144.3 | 83.1 | 59.0 | 48.6 | 40.0 | 26.7 | 21.8 | 11.0 |
| 1.60V/cell | 491.4 | 378.0 | 327.6 | 254.8 | 146.4 | 83.6 | 59.3 | 48.9 | 40.2 | 26.8 | 21.8 | 11.1 |

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

| F.V/Time   | 10min | 15min | 20min | 30min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.85V/cell | 627.4 | 501.9 | 453.7 | 357.1 | 238.4 | 131.7 | 96.2 | 81.6 | 68.6 | 49.7 | 41.0 | 21.5 |
| 1.80V/cell | 693.8 | 545.2 | 488.2 | 372.6 | 239.5 | 134.2 | 96.4 | 82.6 | 69.0 | 50.1 | 41.3 | 21.7 |
| 1.75V/cell | 719.3 | 570.9 | 509.8 | 385.3 | 240.6 | 136.6 | 96.5 | 83.6 | 69.1 | 50.5 | 41.6 | 21.8 |
| 1.70V/cell | 748.7 | 595.7 | 528.2 | 396.3 | 245.5 | 138.9 | 96.6 | 84.5 | 69.2 | 50.8 | 41.9 | 21.9 |
| 1.67V/cell | 790.7 | 623.0 | 537.3 | 401.4 | 247.6 | 141.8 | 97.2 | 84.9 | 69.5 | 50.9 | 42.3 | 22.0 |
| 1.60V/cell | 799.7 | 627.2 | 541.0 | 407.5 | 249.3 | 142.1 | 98.0 | 85.1 | 69.8 | 51.0 | 42.7 | 22.1 |