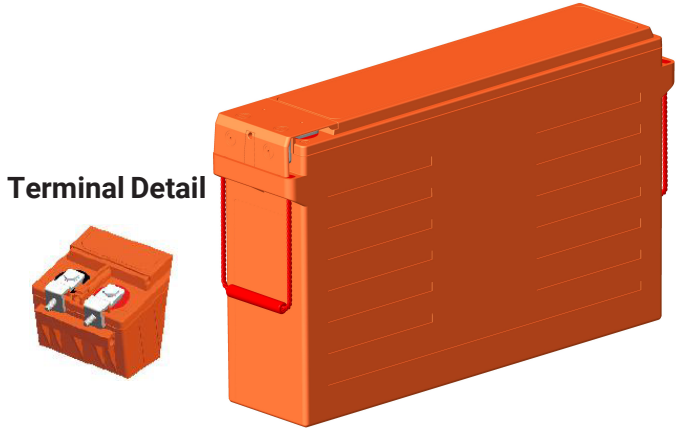


|  |   |
|--|---|
| <b>Capacity (25°C)</b>                   | 20HR (11.6A, 10.5V) = 232AH<br>10HR (21.3A, 10.5V) = 213AH<br>5HR (38.7A, 10.5V) = 193.5AH<br>1HR (143.0A, 10.5V) = 143.0AH |
| <b>Operating Temperature Range</b>       | Charge = -15°C to +55°C<br>Discharge = -40°C to +65°<br>Storage = -20°C to +60°C  |
| <b>Approx. Weight</b>                    | 60.5kg  |
| <b>Max. Discharge [A]</b>                | 2520  |
| <b>Self Discharge</b>                    | 2% 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 (-30mV/°C) Max Current = 210A<br>Float Use = 13.6V (-20mV/°C)                                       |
| <b>Dimensions (Nominal)</b>              | Length: 559mm (22.01 in)<br>Width: 125mm (4.92 in)<br>Height: 328mm (12.90 in)<br>Total Height: 328mm (12.90 in)            |

- Completely sealed, maintenance-free, low self-discharge
- State of the art Pure Lead Punched Grid PLPG technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 20 years
- Cycle use: Up to 600 cycles at 100% DoD
- Cycle use : Up to 1100 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.

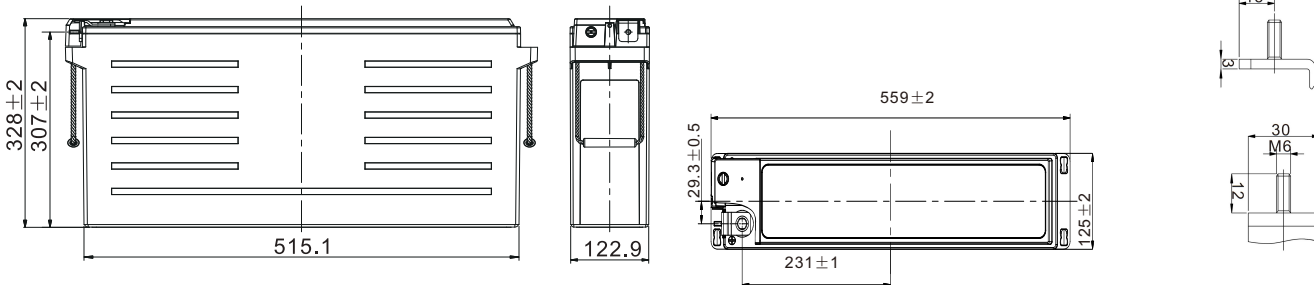


**APPLICATIONS**

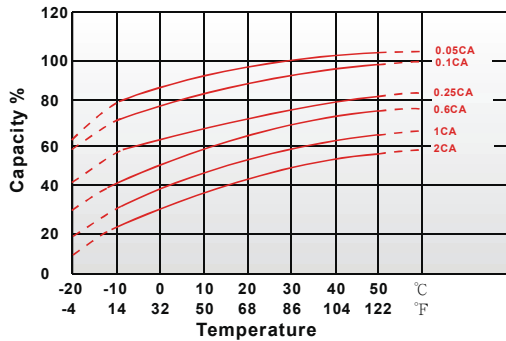
- |                    |                          |                           |
|--------------------|--------------------------|---------------------------|
| Multipurpose       | Electric Vehicle         | DC Power Supply           |
| Telecommunications | Comm. Power Supply       | Auto Control System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

**Terminal Type**

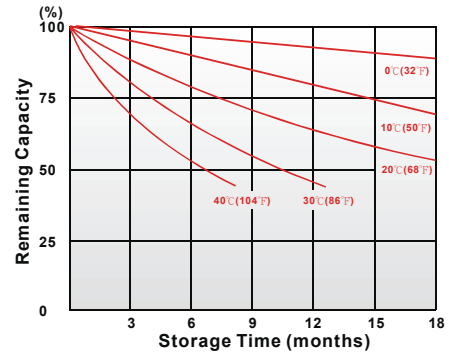
- Terminal M



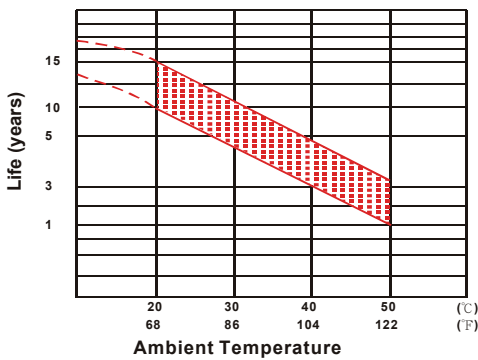
**Effect of Temperature on Capacity 25°C (77°F)**



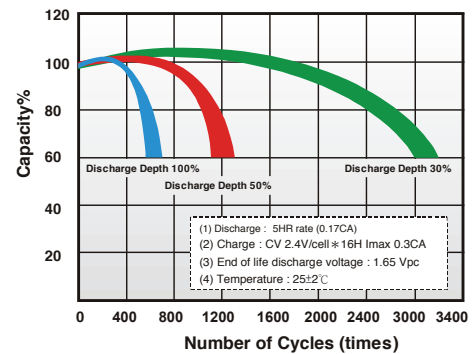
**Capacity Retention Characteristic**



**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   | 10min | 15min | 30min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 353.9 | 298.4 | 206.5 | 129.2 | 78.6 | 57.3 | 43.0 | 36.5 | 24.8 | 20.3 | 11.1 |
| 1.80V/cell | 396.1 | 330.3 | 222.5 | 136.5 | 81.4 | 59.5 | 44.4 | 37.8 | 25.7 | 21.0 | 11.4 |
| 1.75V/cell | 427.4 | 354.2 | 233.0 | 143.0 | 83.2 | 60.6 | 45.7 | 38.7 | 26.2 | 21.3 | 11.6 |
| 1.70V/cell | 458.2 | 374.5 | 241.8 | 147.7 | 85.4 | 62.0 | 46.6 | 39.4 | 26.4 | 21.6 | 11.7 |
| 1.67V/cell | 479.6 | 384.8 | 246.0 | 149.4 | 87.0 | 62.7 | 46.9 | 39.9 | 26.5 | 21.7 | 11.8 |
| 1.60V/cell | 503.3 | 400.7 | 252.6 | 152.9 | 88.4 | 63.1 | 47.3 | 40.3 | 26.6 | 21.8 | 11.8 |

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

| F.V/Time   | 10min | 15min | 30min | 1h    | 2h    | 3h    | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.85V/cell | 674.0 | 578.0 | 409.5 | 256.2 | 157.1 | 114.5 | 86.4 | 73.6 | 49.5 | 41.3 | 22.3 |
| 1.80V/cell | 745.9 | 635.0 | 439.0 | 268.8 | 161.7 | 118.4 | 88.9 | 75.7 | 50.5 | 42.4 | 22.9 |
| 1.75V/cell | 799.5 | 676.0 | 462.3 | 279.8 | 164.5 | 120.3 | 90.7 | 77.1 | 51.5 | 42.9 | 23.3 |
| 1.70V/cell | 843.7 | 708.6 | 481.0 | 287.6 | 168.2 | 122.5 | 92.3 | 78.4 | 52.4 | 43.3 | 23.4 |
| 1.67V/cell | 864.2 | 725.0 | 488.0 | 289.3 | 170.5 | 123.5 | 92.8 | 79.2 | 53.0 | 43.4 | 23.5 |
| 1.60V/cell | 882.6 | 750.8 | 500.0 | 293.9 | 172.1 | 124.0 | 93.2 | 79.5 | 53.1 | 43.6 | 23.6 |