

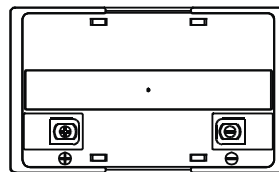
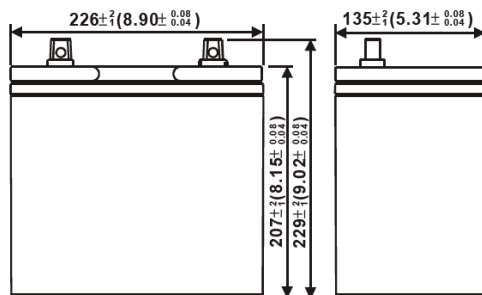
<b>Capacity (25°C)</b>	20HR (2.81A, 10.5V) = 56.2AH 10HR (5.51A, 10.5V) = 55.1AH 5HR (9.53A, 10.5V) = 47.7AH 1HR (34.3A, 10.5V) = 34.3AH
<b>Operating Temperature Range</b>	Charge = -15°C to +50°C Discharge = -40°C to +60°C Storage = -20°C to +60°C
<b>Approx. Weight</b>	17.1kg / 37.6lbs
<b>Internal Resistance</b>	Fully charged at 25°C : ≤ 5mΩ
<b>Self Discharge</b>	3% per month at (25°C)
<b>Capacity Affected by Temp. (20HR)</b>	40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65%
<b>Charge Voltage (25°C)</b>	Cycle Use = 14.4 - 14.7V (-30mV/°C) Max Current = 16.5A Float Use = 13.5-13.8V (-20mV/°C)
<b>Dimensions (Nominal)</b>	Length: 226mm (8.90 in) Width: 135mm (5.31 in) Height: 207mm (8.15 in) Total Height: 229mm (9.02 in)

- Completely sealed, maintenance-free, low self-discharge
- State of the art grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 10 years
- Cycle use: Up to 260 cycles at 100% DoD
- Cycle use : Up to 600 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

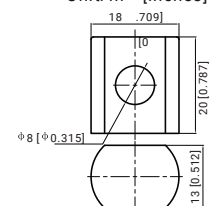
- |                    |                          |                           |
|--------------------|--------------------------|---------------------------|
| Multipurpose       | Electric Vehicle         | DC Power Supply           |
| Telecommunications | Comm. Power Supply       | Auto Control System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



## Terminal Type

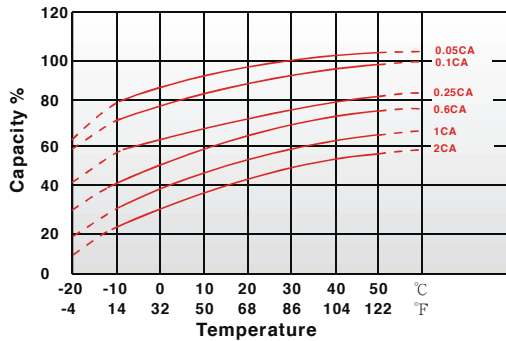
### ■ Terminal NB

Unit: m [inches]

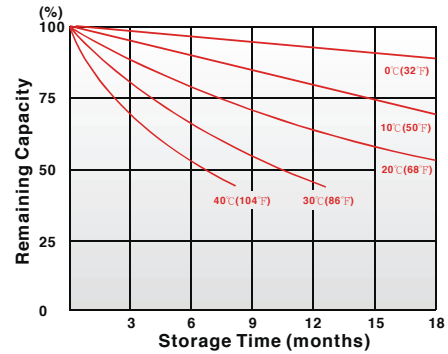


M6 Bolt & Nut

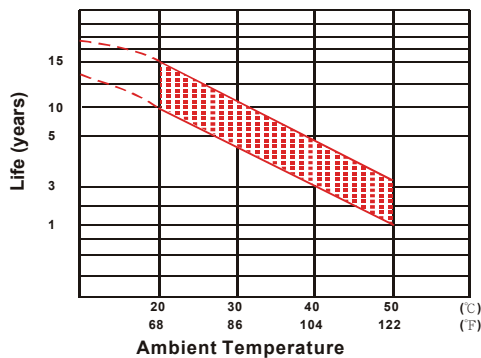
**Effect of Temperature on Capacity 25°C (77°F)**



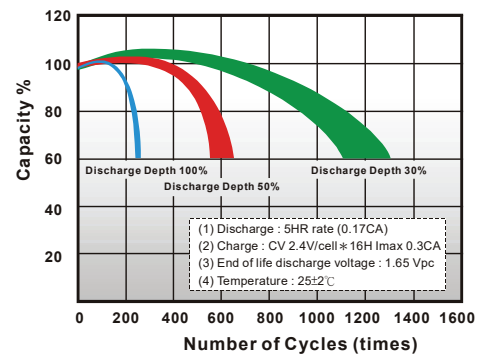
**Capacity Retention Characteristic**



**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	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.85V/cell	158	117	91.3	57.9	29.2	16.8	12.7	10.8	8.95	5.30	2.74
1.80V/cell	182	136	101	63.1	32.5	18.1	13.5	11.2	9.34	5.41	2.78
1.75V/cell	196	147	105	65.7	34.3	19.1	14.0	11.6	9.53	5.51	2.81
1.70V/cell	209	152	110	67.4	34.9	19.5	14.3	11.8	9.64	5.56	2.84
1.67V/cell	218	158	114	69.2	35.4	19.9	14.5	12.0	9.80	5.62	2.88
1.60V/cell											

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.85V/cell	300	221	196	119	65.0	33.3	26.8	21.9	18.4	10.7	5.51
1.80V/cell	336	246	211	124	67.4	35.5	28.7	22.9	19.3	11.1	5.75
1.75V/cell	365	266	222	128	69.6	37.1	29.7	23.8	20.1	11.5	5.96
1.70V/cell	390	284	225	131	71.6	37.7	30.2	24.2	20.3	11.6	6.04
1.67V/cell	414	298	228	135	72.1	38.3	30.6	24.5	20.5	11.8	6.09
1.60V/cell											