

Capacity (25°C)	20HR (4.02A, 10.5V) = 80.4AH 10HR (8.01A, 10.5V) = 80.1AH 5HR (13.2A, 10.5V) = 66AH 1HR (54.0A, 10.5V) = 54AH
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -40°C to +60°C Storage = -20°C to +60°C
Approx. Weight	24kg (53 lbs)
Internal Resistance	Fully charged at 25°C : ≤ 5mΩ
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 = 14.4 - 14.7V(-30mV/°C) Max Current = 22.5A Float Use = 13.5-13.8V(-20mV/°C)
Dimensions (Nominal)	Length: 260mm (10.24 in.) Width: 170mm (6.69 in.) Height: 202mm (7.95 in.) Total Height: 207mm (8.15 in.)

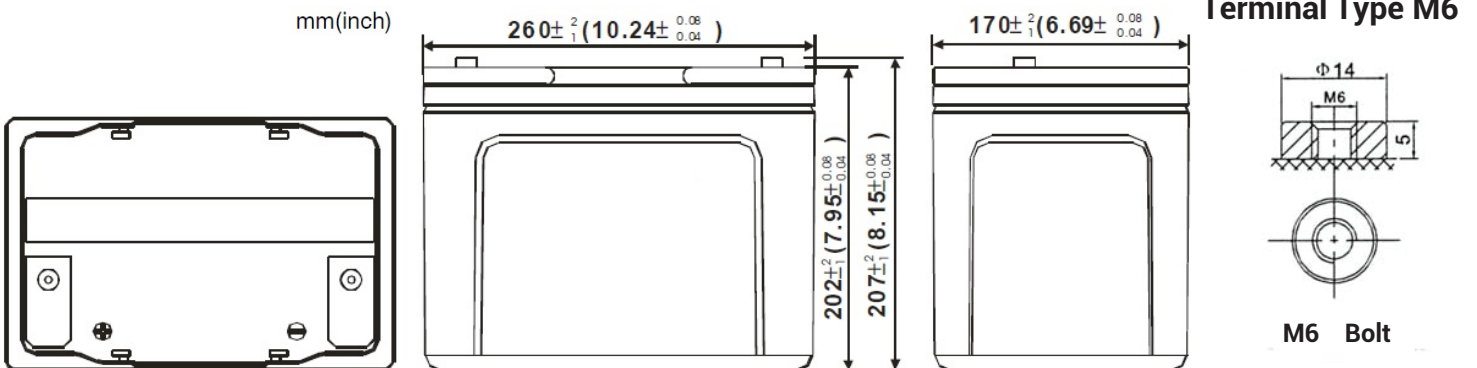
- Completely sealed, maintenance-free, low self-discharge
- State of the art hybrid gel and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 12 years
- Cycle use: Up to 260 cycles at 100% DoD
- 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 |

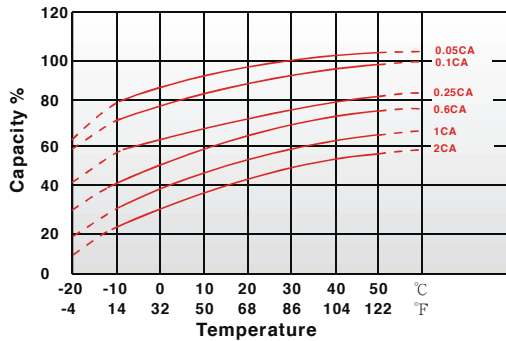
Recommended torque value M6: 7 N-m (71kgf-cm)
Maximum allowable torque value M6: 10 N-m (102kgf-cm)



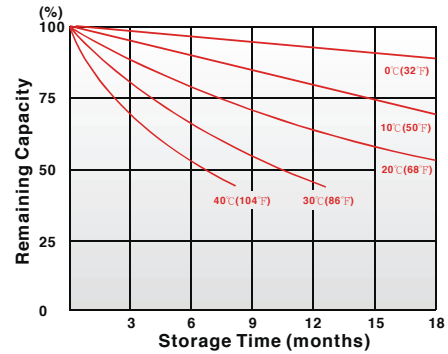
M6 Bolt

REV A

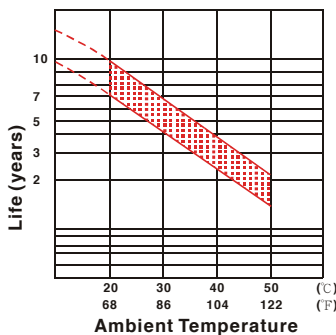
Effect of Temperature on Capacity 25°C (77°F)



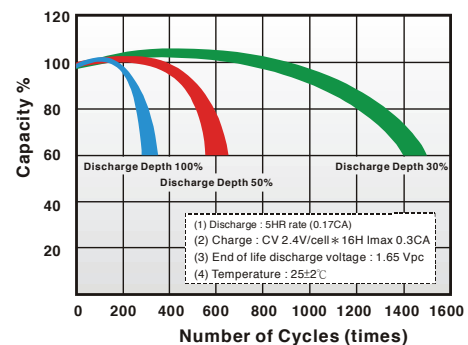
Capacity Retention Characteristic



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	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	202.0	155.0	95.0	66.7	51.0	27.8	19.5	15.2	12.7	8.53	7.20	3.75
1.80V/cell	217.0	170.0	100.0	70.4	53.0	29.0	20.4	15.7	13.0	8.88	8.00	4.00
1.75V/cell	228.0	184.0	102.0	71.5	54.0	29.8	20.9	16.0	13.2	9.20	8.01	4.02
1.70V/cell	238.0	189.0	105.0	72.7	54.9	30.2	21.1	16.2	13.4	9.22	8.01	4.03
1.67V/cell	248.0	194.0	107.0	73.5	55.5	30.6	21.3	16.3	13.6	9.23	8.02	4.03
1.60V/cell	264.0	199.0	110.0	75.0	56.6	31.0	21.5	16.4	13.8	9.24	8.02	4.04

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

F.V/Time	10min	15min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	380.0	292.0	177.0	129.0	97.1	54.6	37.7	29.5	24.1	16.4	13.7	7.74
1.80V/cell	400.0	311.0	187.0	134.0	97.9	56.5	38.3	30.0	24.4	16.7	14.2	7.82
1.75V/cell	415.0	326.0	197.0	136.0	98.4	57.4	38.8	30.5	24.6	16.9	14.7	7.87
1.70V/cell	426.0	333.0	201.0	138.0	98.7	57.7	39.1	30.7	24.8	17.0	14.9	7.92
1.67V/cell	435.0	340.0	203.0	139.0	98.9	58.0	39.3	30.9	24.9	17.1	15.1	7.95
1.60V/cell	448.0	350.0	205.0	140.0	99.0	58.4	39.5	31.1	25.0	17.2	15.2	7.98