

<b>Capacity (25°C)</b>	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
<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>	24kg (53 lbs)
<b>Internal Resistance</b>	Fully charged at 25°C : ≤ 5mΩ
<b>Self Discharge</b>	2% 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 = 22.5A Float Use = 13.5-13.8V(-20mV/°C)
<b>Dimensions (Nominal)</b>	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.



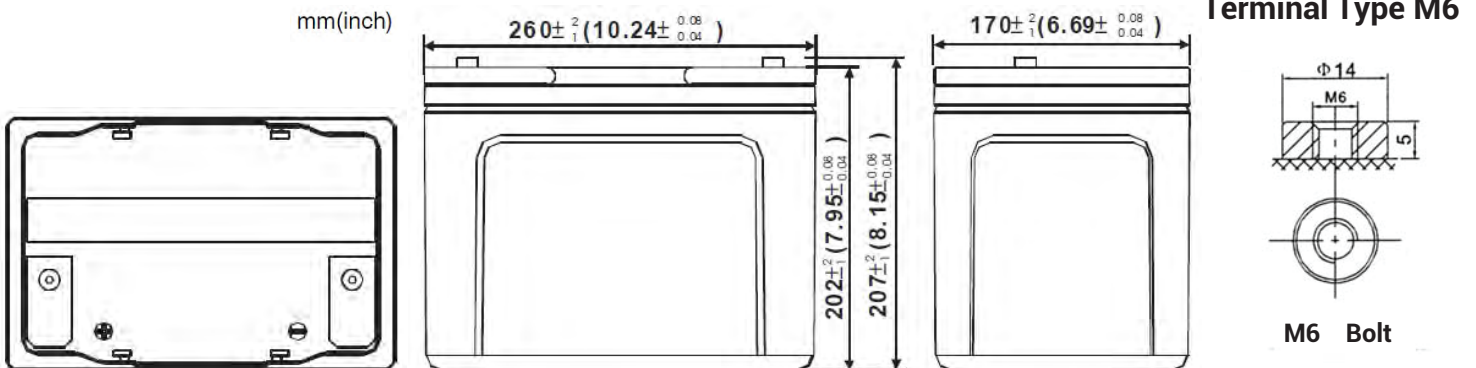
## ■ APPLICATIONS

Multipurpose  
Telecommunications  
UPS  
Medical Equipment

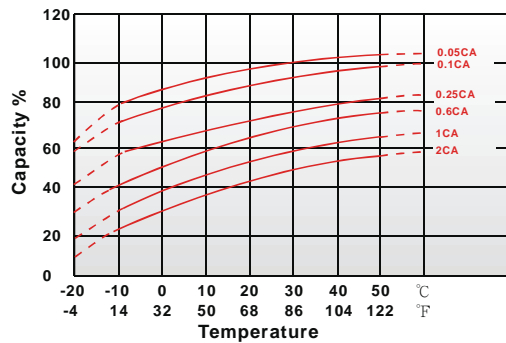
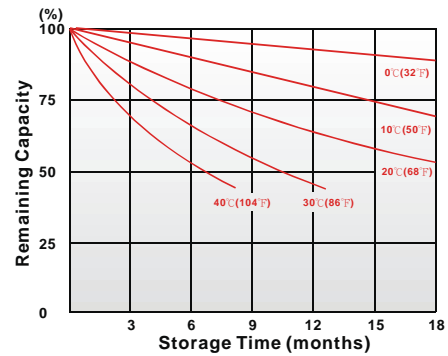
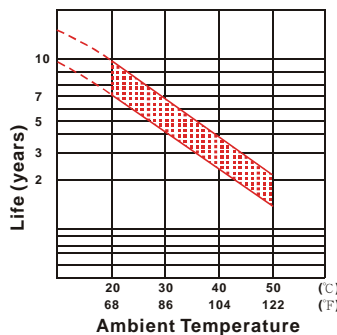
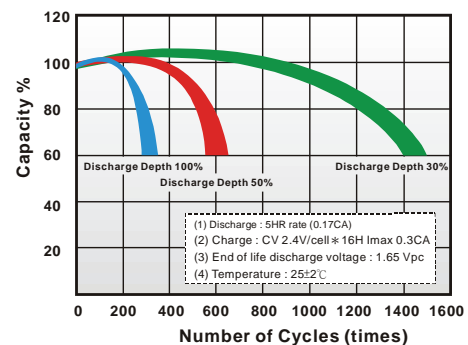
Electric Vehicle  
Comm. Power Supply  
Elec. Power System (EPS)  
Emergency Backup Power

DC Power Supply  
Auto Control System  
Traffic Control Signaling  
Emergency Lighting

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



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