

Capacity (25°C)	20HR (4.77A, 10.5V) = 95.4AH 10HR (9.18A, 10.5V) = 91.8AH 5HR (16.6A, 10.5V) = 83.0AH 1HR (59.1A, 10.5V) = 59.1AH
Operating Temperature Range	Charge = -15°C to +55°C Discharge = -40°C to +65°C Storage = -20°C to +60°C
Approx. Weight	28.8kg
Max. Discharge [A]	1080
Self Discharge	2% per month at (25°C)
Capacity Affected by Temp. (20HR)	40°C = 103% 25°C = 100% 0°C = 86% -15°C = 65%
Charge Voltage (25°C)	Cycle Use = 14.1- 14.4V (-30mV/°C) Max Current = 90A Float Use = 13.6V (-20mV/°C)
Dimensions (Nominal)	Length: 405mm (15.94 in) Width: 108mm (4.25 in) Height: 271mm (10.67 in) Total Height: 287mm (11.30 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.



Terminal Detail

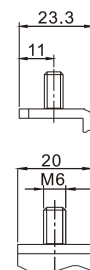
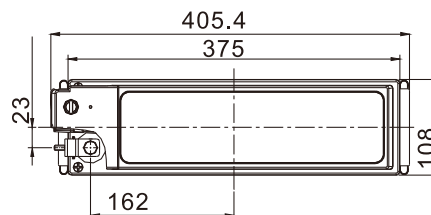
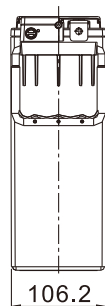
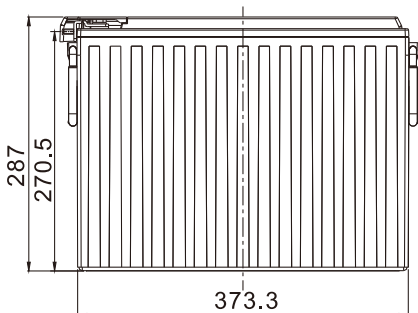


■ APPLICATIONS

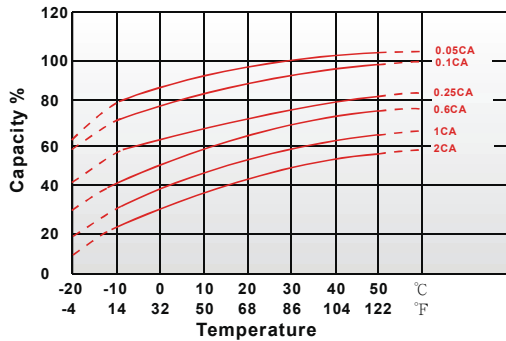
- | | | |
|--------------------|--------------------------|---------------------------|
| Multipurpose | Electric Vehicle | DC Power Supply |
| Telecommunications | Comm. Power Supply | Auto Control System |
| UPS | Elec. Power System (EPS) | Traffic Control Signaling |
| Medical Equipment | Emergency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

Terminal Type

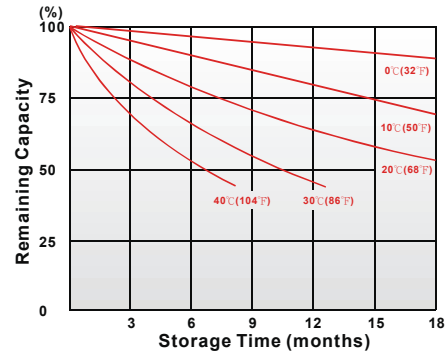
- Terminal M



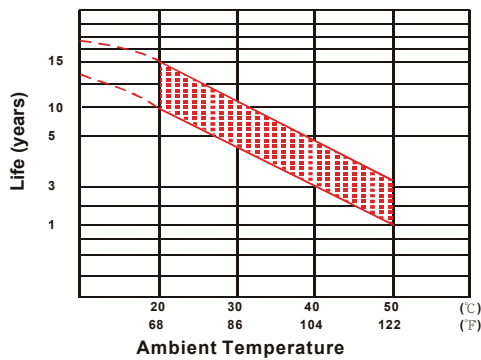
■ Effect of Temperature on Capacity 25°C (77°F)



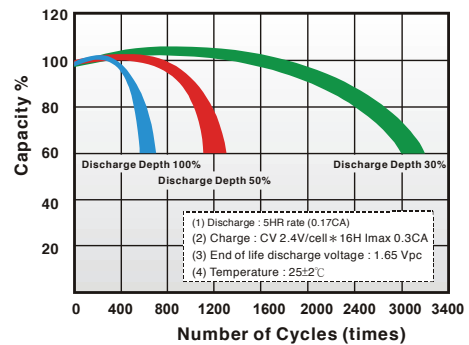
■ Capacity Retention Characteristic



■ 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	174.2	145.4	99.2	54.7	35.3	25.1	20.1	16.2	10.7	8.92	4.61
1.80V/cell	195.8	162.6	104.0	57.0	36.6	26.1	20.3	16.4	11.0	9.00	4.72
1.75V/cell	213.0	171.4	110.8	59.1	37.7	26.8	20.6	16.6	11.3	9.18	4.77
1.70V/cell	227.4	181.3	115.2	60.6	38.4	27.0	20.8	16.7	11.3	9.36	4.84
1.67V/cell	242.4	188.6	119.3	62.3	38.9	27.8	21.0	17.2	11.5	9.72	4.88
1.60V/cell	256.0	197.4	120.4	63.4	39.2	28.1	21.1	17.5	11.7	9.90	4.96

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	332.3	278.1	193.1	108.4	70.4	50.3	40.4	32.7	21.7	18.2	9.42
1.80V/cell	367.5	306.9	201.1	112.3	72.5	52.1	40.7	33.0	22.2	18.3	9.62
1.75V/cell	395.8	320.5	212.6	115.9	74.3	53.1	41.2	33.3	22.8	18.6	9.69
1.70V/cell	416.1	334.9	219.2	118.1	75.2	53.2	41.4	33.4	22.7	18.9	9.82
1.67V/cell	439.2	344.9	226.0	121.0	76.0	54.5	41.7	34.3	23.1	19.5	9.88
1.60V/cell	451.5	353.4	225.2	122.0	75.8	54.6	41.5	34.6	23.3	19.8	10.0