

Capacity (25°C)	20HR (3.98A, 10.5V) = 79.6AH 10HR (7.69A, 10.5V) = 76.9H 5HR (13.1A, 10.5V) = 65.5AH 1HR (43.3A, 10.5V) = 43.3AH
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
Approx. Weight	24kg
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: 222mm (8.74 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.



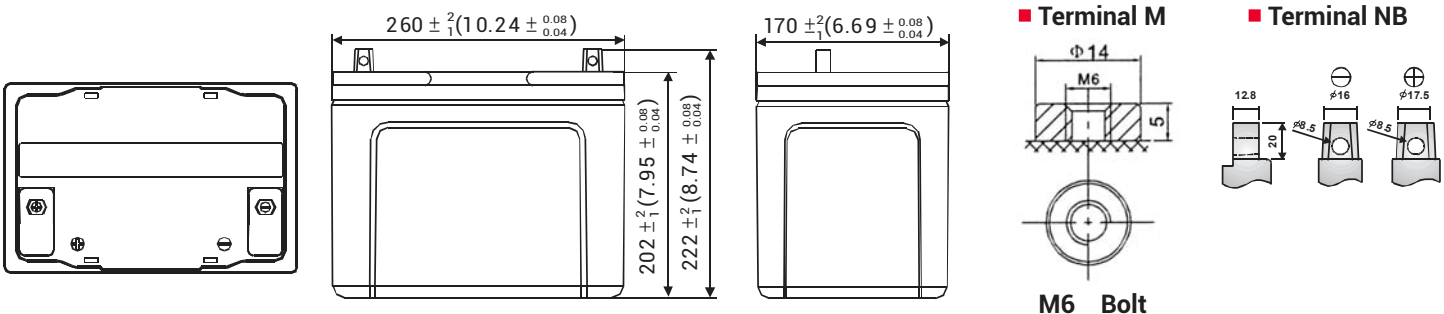
■ APPLICATIONS

Multipurpose
Telecommunications
UPS
Medical Equipment

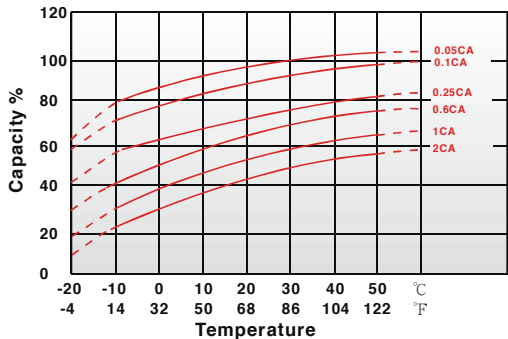
Electric Vehicle
Comm. Power Supply
Elec. Power System (EPS)
Emergency Backup Power

DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting

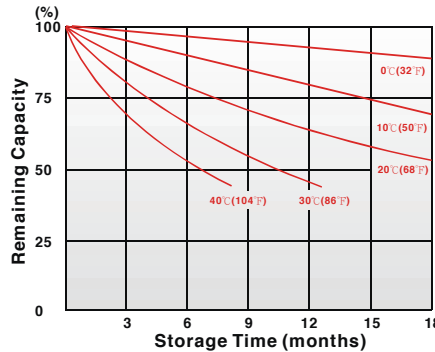
Terminal Type



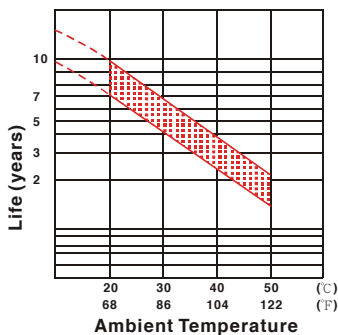
Effect of Temperature on Capacity 25°C (77°F)



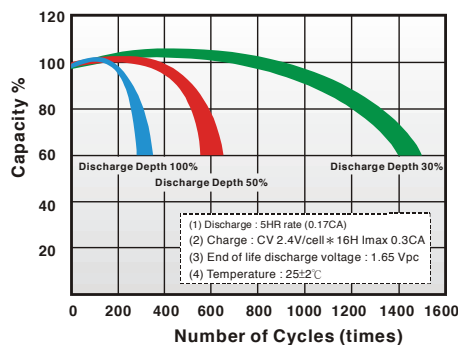
Capacity Retention Characteristic



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	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.85V/cell	178.00	112.00	90.50	63.20	38.60	20.20	15.80	12.90	11.80	7.53	3.87
1.80V/cell	214.00	143.00	109.00	72.60	41.50	22.40	17.40	13.90	12.60	7.62	3.93
1.75V/cell	245.00	167.00	124.00	79.40	43.30	23.90	18.40	14.70	13.10	7.69	3.98
1.70V/cell	272.00	186.00	138.00	84.50	44.80	25.00	19.30	15.30	13.40	7.74	4.02
1.67V/cell	281.00	192.00	141.00	85.60	45.30	25.40	19.60	15.60	13.60	7.76	4.03
1.60V/cell	304.00	207.00	150.00	89.00	46.70	26.30	20.40	16.20	14.10	7.85	4.08

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	407.00	278.00	178.00	139.00	80.80	47.20	34.00	27.80	24.80	15.00	7.85
1.80V/cell	429.00	294.00	225.00	149.00	85.30	49.80	35.80	28.80	25.30	15.20	7.97
1.75V/cell	491.00	336.00	240.00	155.00	87.80	51.30	36.80	29.70	25.70	15.30	8.07
1.70V/cell	521.00	357.00	274.00	159.00	89.80	52.70	37.70	30.30	26.00	15.50	8.15
1.67V/cell	537.00	368.00	280.00	160.00	90.50	53.20	38.00	30.50	26.20	15.50	8.20
1.60V/cell	567.00	388.00	294.00	165.00	92.30	54.30	38.80	31.20	26.50	15.60	8.28