

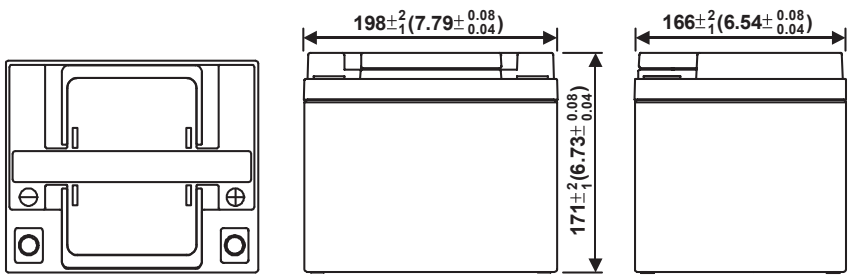
<b>Capacity (25°C)</b>	20HR (2.03A, 10.5V) = 40.6AH 10HR (3.87A, 10.5V) = 38.7AH 5HR (6.84A, 10.5V) = 34.2AH 1HR (23.80A, 10.5V) = 23.80AH
<b>Operating Temperature Range</b>	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
<b>Approx. Weight</b>	13.0kg
<b>Internal Resistance</b>	Fully charged at 25°C : ≤ 10mΩ
<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 = 12A Float Use = 13.5-13.8V (-20mV/°C)
<b>Dimensions (Nominal)</b>	Length: 198mm (7.79 in.) Width: 166mm (6.54 in.) Height: 171mm (6.73 in.) Total Height: 171mm (6.73 in.)

- Completely sealed, maintenance-free, low self-discharge
- State of the art AGM and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 8 years
- Cycle use: Up to 260 cycles at 100% DoD
- Cycle use: Up to 500 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.

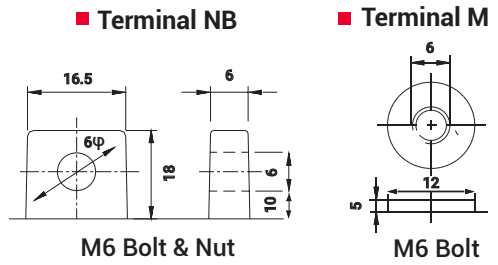


### ■ APPLICATIONS

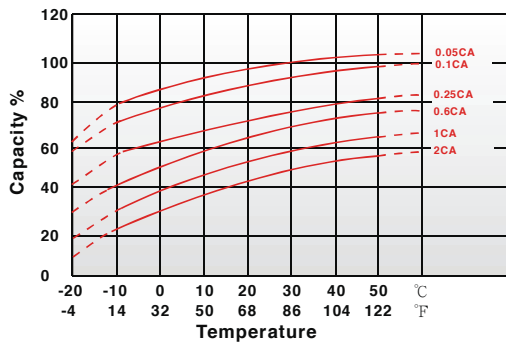
Multipurpose	Alarm & Security System	DC Power Supply
Telecommunications	Comm. Power Supply	Auto Control System
UPS	Elec. Power System (EPS)	Traffic Control Signaling
Medical Equipment	Emergency Backup Power	Emergency Lighting



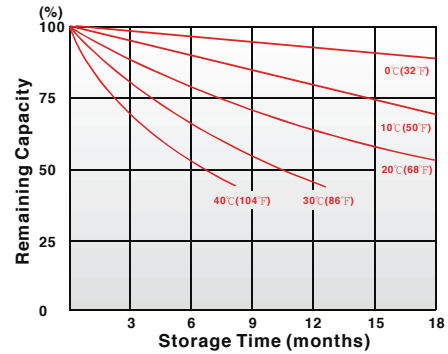
### Terminal Type



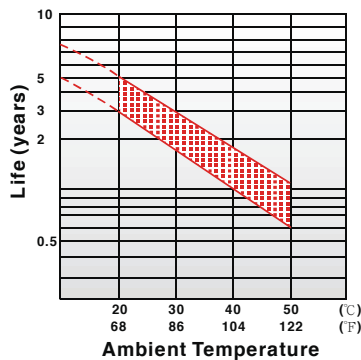
**Effect of Temperature on Capacity 25°C (77°F)**



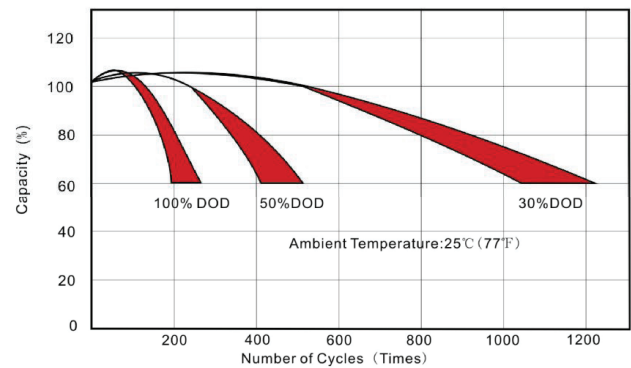
**Capacity Retention Characteristic**



**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	116.00	74.10	56.50	30.70	22.70	12.60	9.27	7.34	6.43	3.52	1.87
1.80V/cell	140.00	89.00	66.40	34.90	23.40	13.10	9.62	7.63	6.68	3.70	1.95
1.75V/cell	157.00	99.20	73.30	38.70	23.80	13.50	9.84	7.88	6.84	3.87	2.03
1.70V/cell	168.00	105.00	77.80	40.00	24.20	13.80	10.00	8.06	6.98	3.98	2.07
1.67V/cell	171.00	107.00	79.10	40.90	24.40	13.90	10.10	8.09	7.02	4.02	2.09
1.60V/cell	178.00	111.00	81.40	42.90	24.90	14.30	10.40	8.21	7.13	4.12	2.14

**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	1243.00	741.00	617.00	354.00	263.00	155.00	113.00	89.10	81.40	41.60	21.30
1.80V/cell	1509.00	914.00	734.00	416.00	272.00	161.00	117.00	91.60	83.60	42.90	22.50
1.75V/cell	1701.00	1038.00	815.00	459.00	279.00	164.00	120.00	93.40	85.20	44.10	23.60
1.70V/cell	1825.00	1117.00	867.00	487.00	284.00	167.00	122.00	95.00	86.60	45.30	24.50
1.67V/cell	1857.00	1136.00	881.00	494.00	286.00	168.00	123.00	95.50	87.20	45.80	24.90
1.60V/cell	1928.00	1183.00	918.00	510.00	291.00	172.00	126.00	97.20	88.70	47.20	26.10