

**Ultra High Rate SLA Battery**

<b>Capacity (25°C)</b>	20HR (5.20A, 10.5V) = 104AH 10HR (9.81A, 10.5V) = 98.1AH 5HR (17.9A, 10.5V) = 89.5AH 1HR (65.5A, 10.5V) = 65.5AH
<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>	31.4kg/ 69.2lbs
<b>15 Mins Rate</b>	405W/cell to 1.67V/cell
<b>Max. Discharge</b>	1650A (5s)
<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 = 14.1-14.4V (-24mV/°C) Max Current = 36.4A Float Use = 13.5-13.8V (-18mV/°C)
<b>Dimensions (Nominal)</b>	Length: 325.5mm (12.81 in.) Width: 170mm (6.69 in.) Height: 213mm (8.39 in.) Total Height: 216mm (8.50 in.)

- Completely sealed, maintenance-free, low self-discharge
- State of the art hybrid grid and alloy formula
- 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-H B (optional UL94-V0)
- Transportation - D.O.T., I.A.T.A. & F.A.A.



**APPLICATIONS**

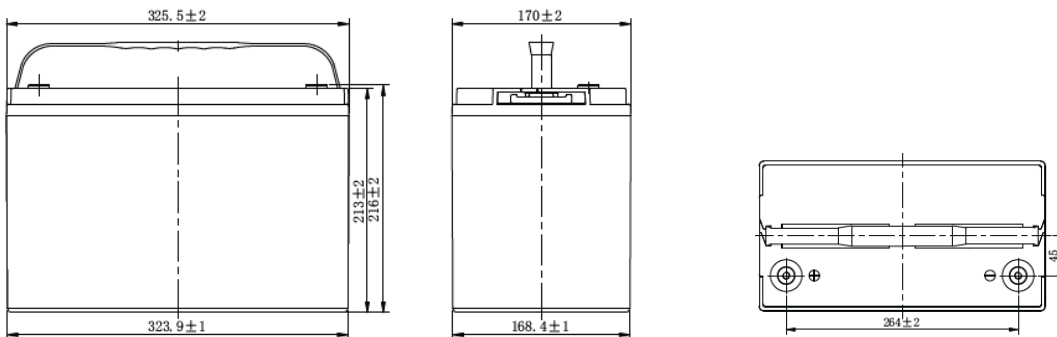
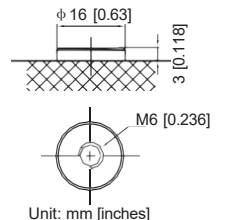
High Power Backup  
Telecommunications  
Critical UPS  
Medical Equipment

Alarm & Security System  
Electric Start  
Elec. Power System (EPS)  
Emergency Backup Power

DC Power Supply  
Auto Control System  
Traffic Control Signaling  
Emergency Lighting

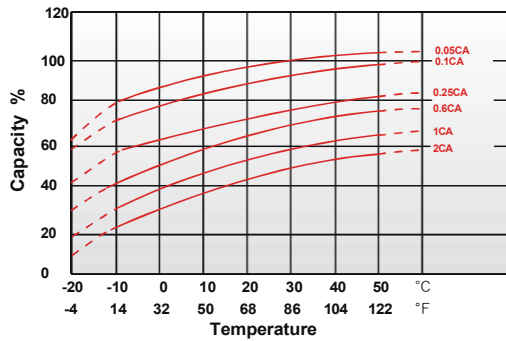
**Terminal Type**

**M6**

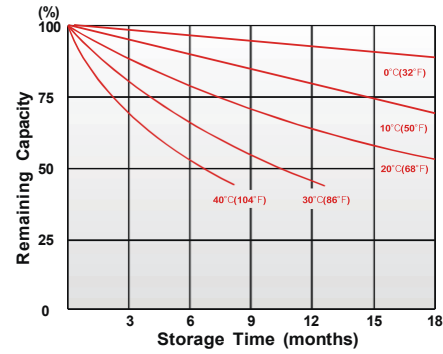




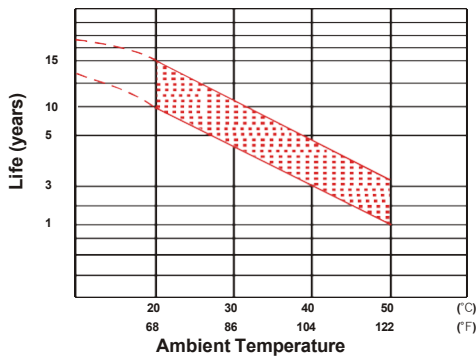
## Effect of Temperature on Capacity 25°C (77°F)



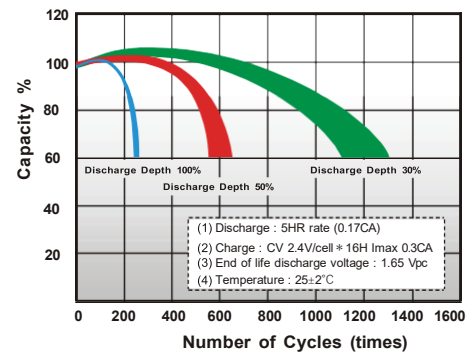
## Capacity Retention Characteristic



## 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	6h	10h	20h
1.85V/cell	222.1	179.5	161.7	104.9	59.9	33.8	25.0	20.0	16.8	14.6	9.37	4.94
1.80V/cell	264.0	204.6	179.2	112.4	62.5	35.2	26.0	20.8	17.5	15.0	9.60	5.00
1.75V/cell	297.0	225.1	193.1	119.2	65.5	36.5	26.8	21.4	17.9	15.4	9.81	5.20
1.70V/cell	324.7	239.6	203.6	124.0	68.2	37.9	27.6	21.9	18.2	15.7	10.0	5.26
1.67V/cell	355.1	254.1	214.0	128.3	70.3	39.0	28.4	22.5	18.7	16.1	10.1	5.30
1.60V/cell	372.2	264.8	220.6	131.0	71.2	39.7	28.9	22.8	18.9	16.3	10.3	5.33

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.85V/cell	432.2	351.1	318.1	208.6	120.0	68.1	50.4	40.6	34.2	29.7	19.3	10.2
1.80V/cell	508.2	396.2	349.0	221.4	124.3	70.4	52.2	41.9	35.3	30.5	19.7	10.4
1.75V/cell	565.9	431.7	372.8	232.8	129.4	72.5	53.4	42.9	35.9	31.1	20.0	10.6
1.70V/cell	611.7	454.5	388.4	239.7	133.7	74.7	54.8	43.6	36.4	31.4	20.2	10.7
1.67V/cell	663.5	478.4	405.7	246.7	137.0	76.5	55.9	44.5	37.2	32.0	20.4	10.7
1.60V/cell	687.7	493.2	413.8	249.4	137.5	77.1	56.5	44.8	37.3	32.2	20.4	10.7