

Ultra High Rate SLA Battery

Capacity (25°C)	20HR (1.79A, 10.5V) = 35.8AH 10HR (3.41A, 10.5V) = 34.1AH 5HR (6.40A, 10.5V) = 32.0AH 1HR (25.5A, 10.5V) = 25.5AH
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
Approx. Weight	10.5kg / 23.1lbs
15 Mins Rate	150W/cell to 1.67V/cell
Max Discharge	630A (5s)
Capacity Affected by Temp. (20HR)	40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65%
Charge Voltage (25°C)	Cycle Use = 14.1-14.4V (-24mV/°C) Max Current = 10.7A Float Use = 13.5-13.8V (-18mV/°C)
Dimensions (Nominal)	Length: 195mm (7.68 in.) Width: 130mm (5.12 in.) Height: 164mm (6.46 in.) Total Height: 167mm (6.57 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

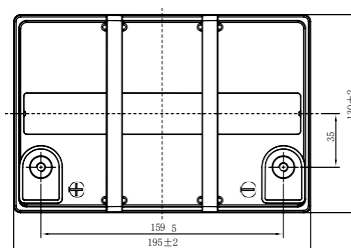
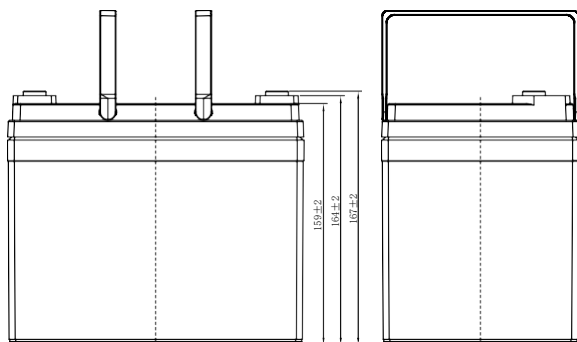
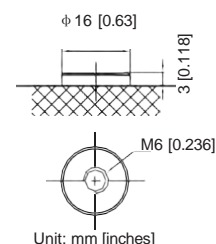
High Power Backup
Telecommunications
Critical UPS
Medical Equipment

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

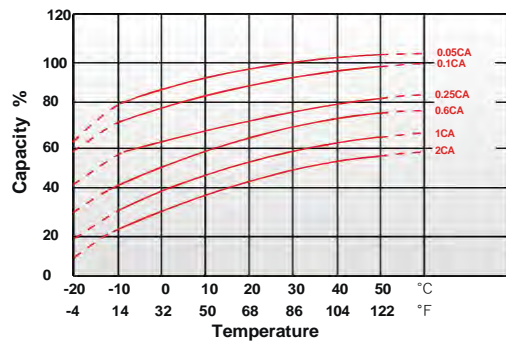
M6



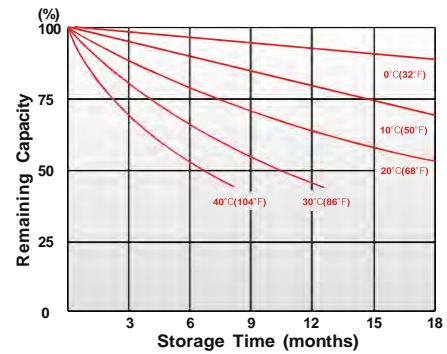
REV A



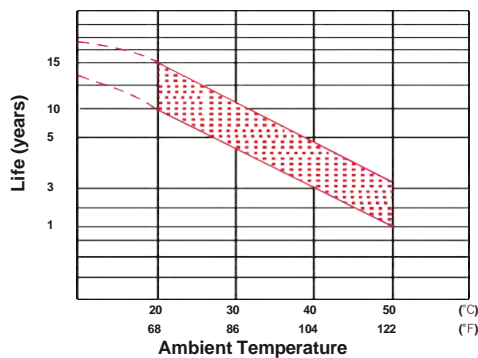
Effect of Temperature on Capacity 25°C (77°F)



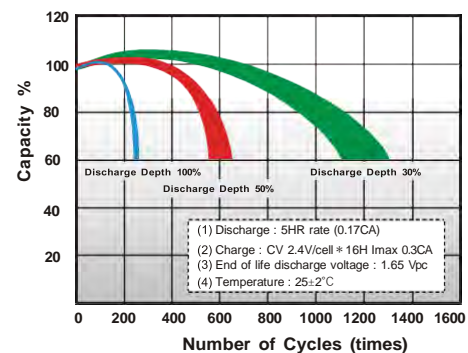
Capacity Retention Characteristic



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 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	102.3	73.7	59.1	37.9	22.6	12.7	9.04	7.06	5.85	5.01	3.26	1.72
1.80V/cell	118.2	82.7	65.2	40.7	23.8	13.2	9.31	7.28	6.02	5.15	3.35	1.75
1.75V/cell	132.8	89.9	70.3	42.7	24.7	13.5	9.54	7.46	6.15	5.25	3.41	1.79
1.70V/cell	144.0	96.6	74.9	44.6	25.5	13.9	9.7	7.60	6.27	5.37	3.48	1.82
1.67V/cell	156.0	103.3	79.1	46.4	26.2	14.2	10.0	7.78	6.41	5.48	3.54	1.85
1.60V/cell	166.8	109.2	82.7	48.4	26.8	14.6	10.2	7.98	6.58	5.63	3.62	1.90

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	199.0	144.2	116.2	75.4	45.2	25.6	18.3	14.3	11.9	10.2	6.71	3.55
1.80V/cell	227.6	160.2	127.1	80.1	47.4	26.3	18.7	14.7	12.2	10.4	6.85	3.59
1.75V/cell	253.0	172.4	135.7	83.4	48.9	26.9	19.0	14.9	12.4	10.6	6.94	3.66
1.70V/cell	271.2	183.3	142.9	86.3	49.9	27.4	19.3	15.1	12.5	10.8	7.03	3.70
1.67V/cell	291.5	194.5	150.0	89.3	51.2	28.0	19.7	15.4	12.7	10.9	7.12	3.75
1.60V/cell	308.1	203.4	155.2	92.2	51.7	28.3	20.0	15.7	13.0	11.1	7.21	3.81

