

**MHB MM Series—Medium-size Battery**

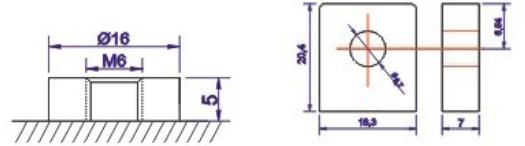
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

**Application:**

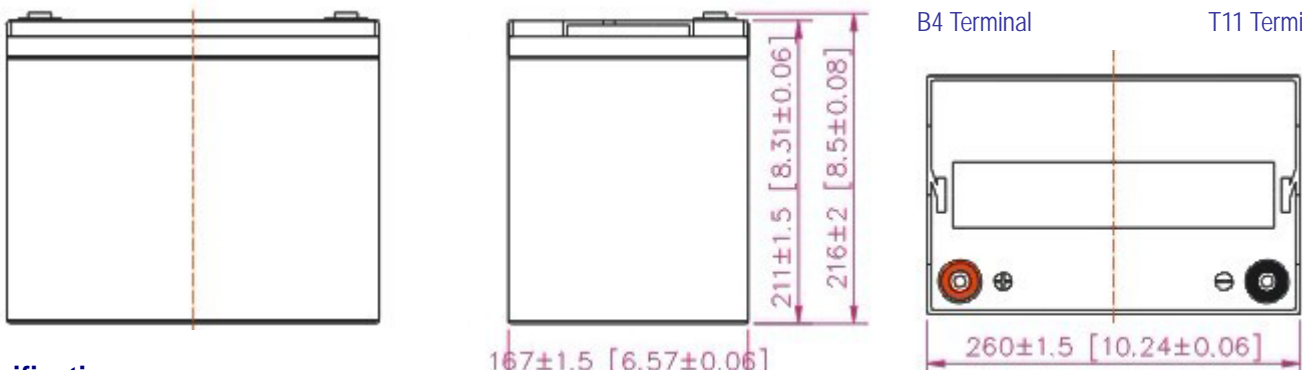
- Telecommunications
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

**Construction:**

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper/Pb
- Separator .....Fiber glass
- Electrolyte ..... Sulfuric acid



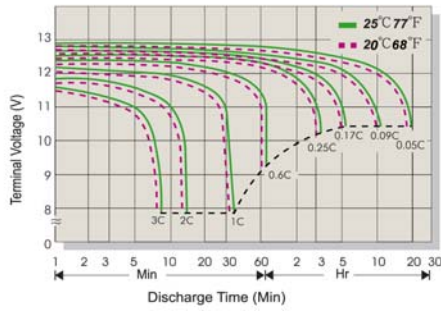
M6 Bolt M6 Bolt & Nut  
B4 Terminal T11 Terminal



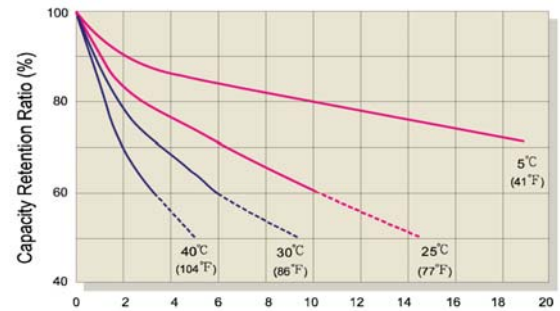
**Speification:**

Battery Model	MM 60-12 12V60AH			
Designed Floating Life	Up to 8 Years			
Capacity (25°C)	20HR(3.12A,10.8V)	10HR(6.00A,10.8V)	5HR(11.45A,10.5V)	1HR(38.35A,10.5V)
	62.40AH	60.00AH	57.25AH	38.35AH
Dimensions	Length	Width	Height	Total Height
	260mm (9.06inch)	167mm (5.39inch)	213mm (8.27inch)	216mm (8.46inch)
Approx. Weight	20.0Kg (44.09 lbs) ± 5%			
Internal Resistance	Full charged at 25°C: ≤8.0mΩ			
Self Discharge	2% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	40°C	40°C	40°C
	102%	102%	102%	102%
Charge Voltage(25°C)	Cycle use		Float use	
	14.40-15.00V(-30mV/°C), max. Current:18.0A		13.50-13.80V (-20mV/°C)	

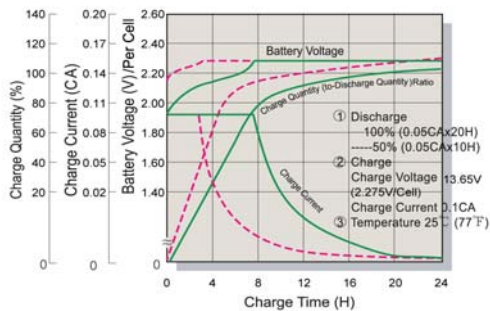
### Terminal Voltage (V) and Discharge Time



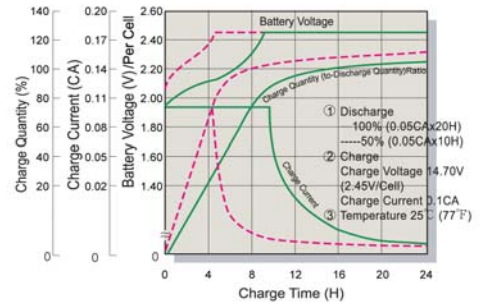
### Capacity Retention Characteristic



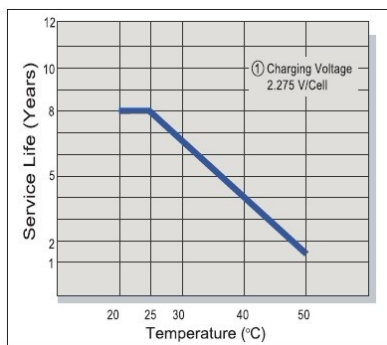
### Battery Voltage and Charge Time for Standby Use



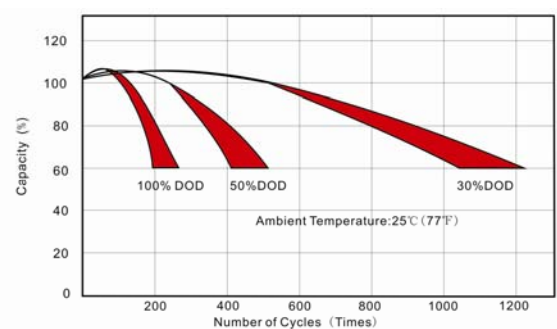
### Battery Voltage and Charge Time for Cycle Use



### Tickle(or Float) Service Life



### Cycle Service Life



### Constant Current Discharge(CC,Unit:A) at 25°C(77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	209.26	123.53	97.09	63.29	36.94	21.35	16.40	13.46	11.03	8.99	5.89	3.07
1.80V/Cell	213.26	125.89	98.94	64.50	37.64	21.76	16.71	13.72	11.24	9.17	6.00	3.12
1.75V/Cell	217.26	128.25	100.80	65.71	38.35	22.17	17.02	13.98	11.45	9.34	6.12	3.18
1.70V/Cell	236.81	135.95	106.85	68.33	39.02	22.56	17.32	14.22	11.66	9.50	6.23	3.24
1.67V/Cell	260.71	147.49	115.92	72.15	39.44	22.80	17.51	14.38	11.78	9.60	6.29	3.27

### Constant Power Discharge (CP,Unit:W) at 25°C(77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	408.06	240.89	189.33	123.41	72.03	41.64	31.97	26.25	21.51	17.54	11.49	5.98
1.80V/Cell	415.86	245.49	192.94	125.77	73.40	42.43	32.58	26.76	21.93	17.87	11.70	6.09
1.75V/Cell	423.65	250.09	196.56	128.13	74.78	43.23	33.19	27.26	22.34	18.21	11.93	6.21
1.70V/Cell	461.78	265.09	208.35	133.24	76.09	43.99	33.78	27.74	22.73	18.53	12.14	6.31
1.67V/Cell	508.38	287.60	226.04	140.69	76.91	44.46	34.14	28.03	22.97	18.73	12.27	6.38