

#### MHB ML Series—Longer service life Battery

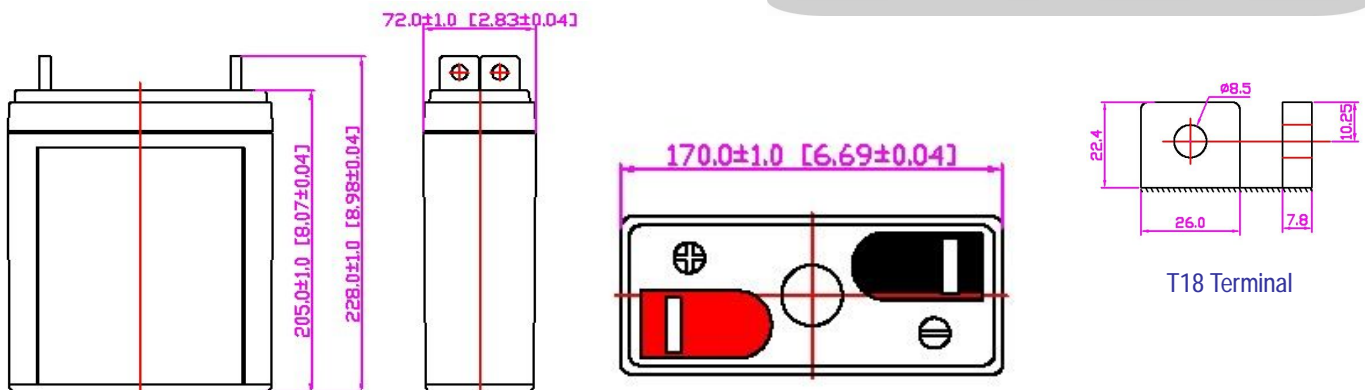
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 15 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 1200 cycles at 30% 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:

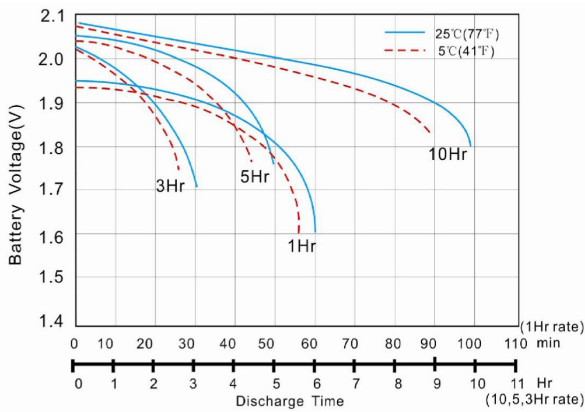
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper
- Separator .....Fiber glass
- Electrolyte ..... Sulfuric acid



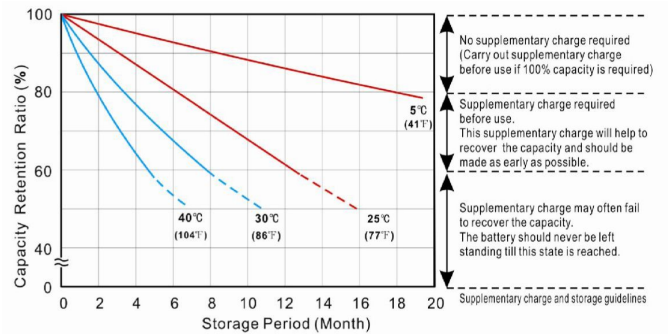
#### Speification:

Battery Model	ML 100 -2 2V100AH			
Designed Floating Life	Up to 15 Years			
Capacity (25°C)	10HR(10.0A,10.8V)	5HR(16.66A,10.8V)	3HR(24.6A,10.8V)	1HR(52.6A,10.8V)
	100.0AH	83.3AH	73.8AH	52.6AH
Dimensions	Length	Width	Height	Total Height
	170mm (6.69inch)	72mm (2.83inch)	205mm (8.07inch)	228mm (8.98inch)
Approx. Weight	5.90Kg (13.01 lbs)			
Internal Resistance	Full charged at 25°C: ≤2.0mΩ			
Self Discharge	2% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	2.30-2.40V(-3.3mV/°C), max. Current:25.0A		2.20-2.25V (-3.3mV/°C)	

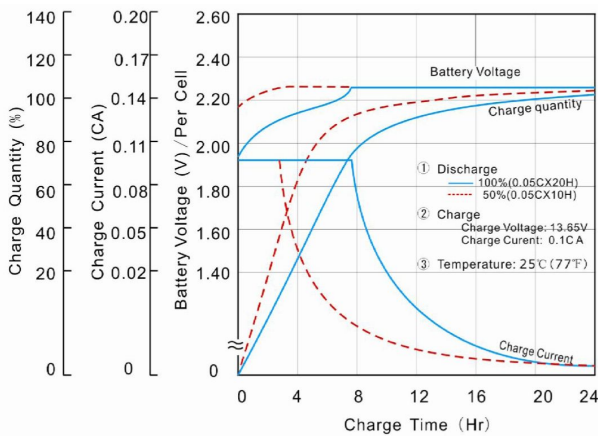
### Terminal Voltage (V) and Discharge Time



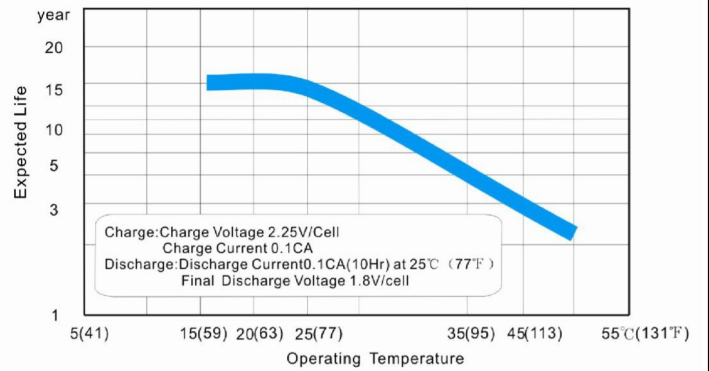
### Capacity Retention Characteristic



### Battery Voltage and Charge Time for Standby Use



### Tickle(or Float) Service Life



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

F.V/Time	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	8Hr	10Hr	20Hr
1.85V/Cell	233.94	155.96	76.03	51.33	31.78	24.04	19.59	16.24	14.29	11.63	9.75	4.99
1.80V/Cell	240.00	160.00	78.00	52.66	32.60	24.66	20.10	16.66	14.66	11.93	10.00	5.12
1.75V/Cell	242.88	161.92	78.94	53.29	32.99	24.96	20.34	16.86	14.84	12.07	10.12	5.18
1.70V/Cell	264.74	171.64	83.67	55.42	33.57	25.40	20.70	17.16	15.10	12.29	10.30	5.27
1.67V/Cell	291.46	186.21	90.78	58.51	33.93	25.67	20.92	17.34	15.26	12.42	10.41	5.33

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

F.V/Time	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	8Hr	10Hr	20Hr
1.85V/Cell	456.2	304.1	148.3	100.1	62.0	46.9	38.2	31.7	27.9	22.7	19.0	9.7
1.80V/Cell	468.0	312.0	152.1	102.7	63.6	48.1	39.2	32.5	28.6	23.3	19.5	10.0
1.75V/Cell	473.6	315.7	153.9	103.9	64.3	48.7	39.7	32.9	28.9	23.5	19.7	10.1
1.70V/Cell	516.2	334.7	163.2	108.1	65.5	49.5	40.4	33.5	29.4	24.0	20.1	10.3
1.67V/Cell	568.3	363.1	177.0	114.1	66.2	50.1	40.8	33.8	29.8	24.2	20.3	10.4