

MHB ML Series—Longer service life Battery

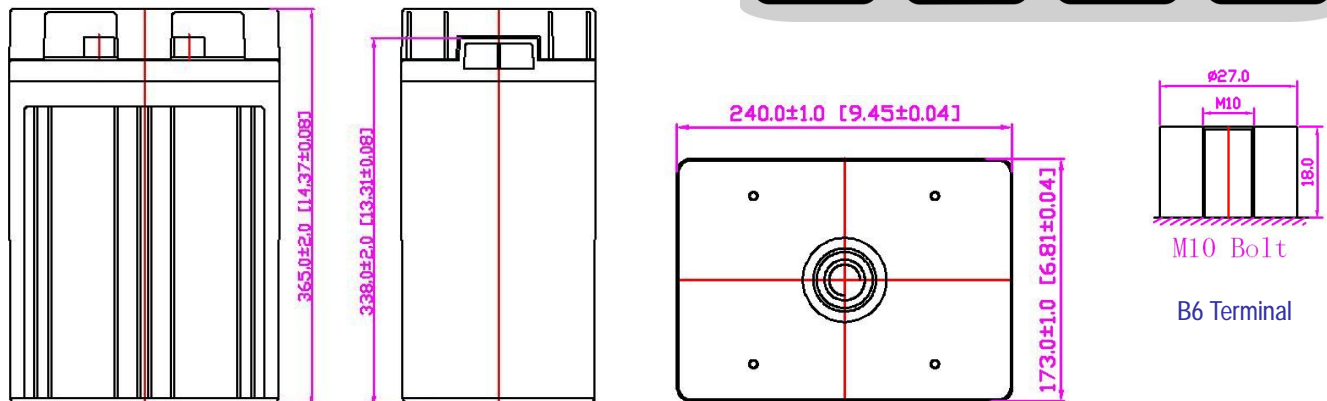
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 15 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle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

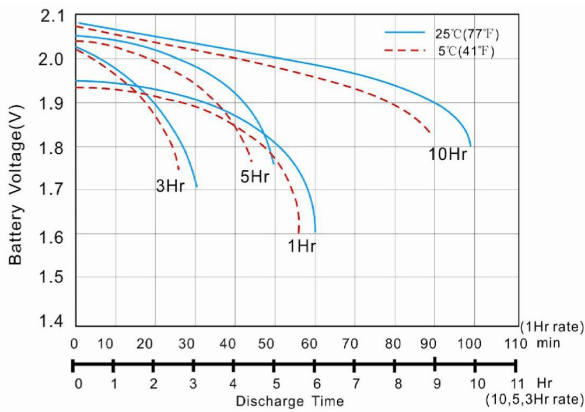
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy
- Safety valve Rubber
- TerminalCopper
- SeparatorFiber glass
- Electrolyte Sulfuric acid



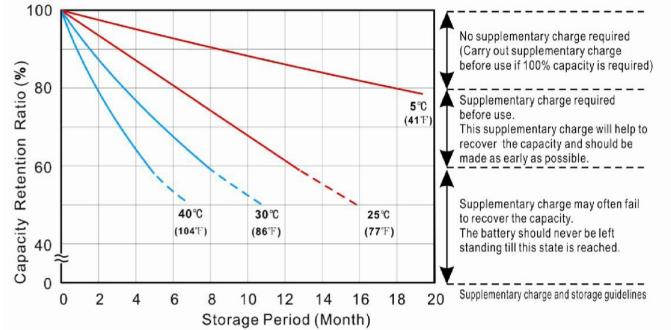
Specification:

Battery Model	ML 500 -2 2V500AH			
Designed Floating Life	Up to 15 Years			
Capacity (25°C)	10HR(50.00A,10.8V)	5HR(83.30A,10.8V)	3HR(123.30A,10.8V)	1HR(263.30A,10.8V)
	500.00AH	416.50AH	369.90AH	263.30AH
Dimensions	Length	Width	Height	Total Height
	240mm (9.45inch)	173mm (6.81inch)	338mm (13.31inch)	365mm (14.37inch)
Approx. Weight	31.00Kg (68.36 lbs)			
Internal Resistance	Full charged at 25°C: ≤0.42mΩ			
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	
	2.40-2.50V(-5mV/°C), max. Current:125.0A		2.25-2.30V (-3.0mV/°C)	

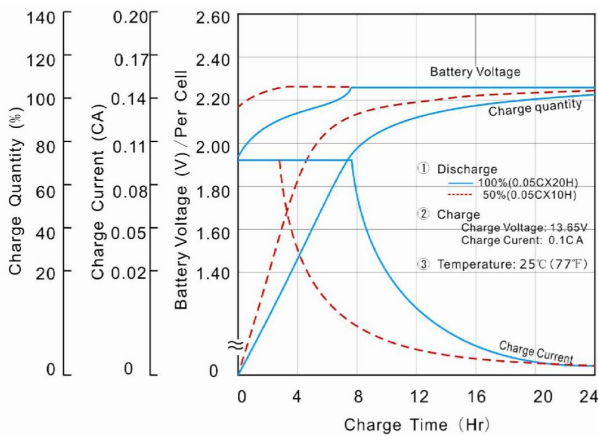
Terminal Voltage (V) and Discharge Time



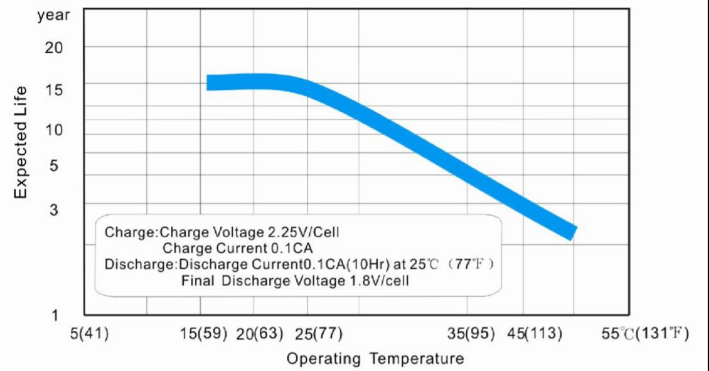
Capacity Retention Characteristic



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	1169.71	779.81	380.16	256.65	158.89	120.19	97.96	81.20	71.45	58.14	48.74	24.95
1.80V/Cell	1200.00	800.00	390.00	263.30	163.00	123.30	100.50	83.30	73.30	59.65	50.00	25.60
1.75V/Cell	1214.40	809.60	394.68	266.46	164.96	124.78	101.71	84.30	74.18	60.37	50.60	25.91
1.70V/Cell	1323.70	858.18	418.36	277.09	167.86	126.98	103.50	85.78	75.49	61.43	51.49	26.36
1.67V/Cell	1457.28	931.04	453.88	292.57	169.66	128.34	104.60	86.70	76.29	62.09	52.04	26.65

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	2280.9	1520.6	741.3	500.5	309.8	234.4	191.0	158.3	139.3	113.4	95.0	48.7
1.80V/Cell	2340.0	1560.0	760.5	513.4	317.9	240.4	196.0	162.4	142.9	116.3	97.5	49.9
1.75V/Cell	2368.1	1578.7	769.6	519.6	321.7	243.3	198.3	164.4	144.7	117.7	98.7	50.5
1.70V/Cell	2581.2	1673.4	815.8	540.3	327.3	247.6	201.8	167.3	147.2	119.8	100.4	51.4
1.67V/Cell	2841.7	1815.5	885.1	570.5	330.8	250.3	204.0	169.1	148.8	121.1	101.5	52.0