

MHB ML Series—Longer service life Battery

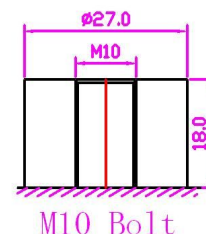
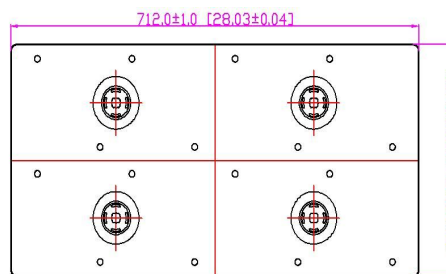
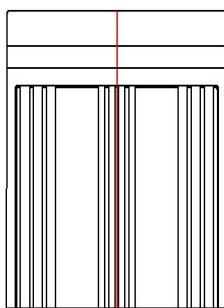
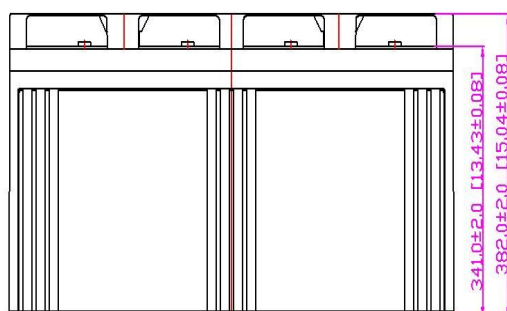
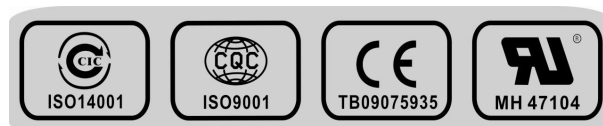
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 15 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle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



B5 Terminal

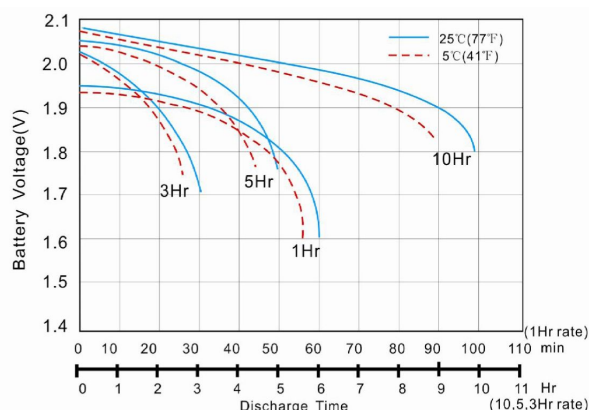
Speification:

Battery Model	ML 3000 -2 2V3000AH			
Designed Floating Life	Up to 15 Years			
Capacity (25℃)	20HR(153.60A,1.80V)	10HR(300.00A,1.80V)	5HR(499.80A,1.80V)	1HR(1579.8A,1.80V)
	3072.00 AH	3000.00 AH	2499.00 AH	1579.80 AH
Dimensions	Length	Width	Height	Total Height
	712 mm	353 mm	341 mm	382 mm
Approx. Weight	188.00 KG±3%			
Internal Resistance	Full charged at 25℃:≤0.15mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
Capacity Affected by Temp.(20HR)	40℃	25℃	0℃	-15℃
	102%	100%	85%	65%
Charge Voltage(25℃)	Cycle use		Float use	
	2.40-2.50V(-5mV/℃), max. Current:750.0A		2.25-2.30V (-3.0mV/℃)	

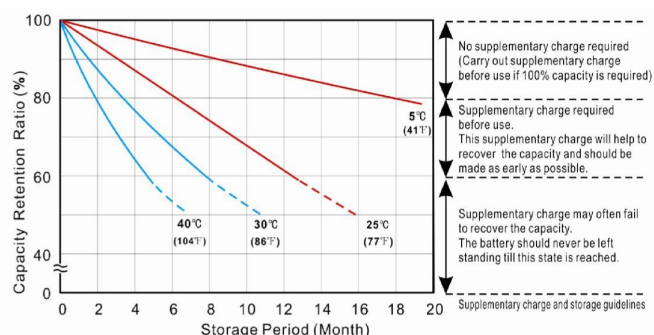
FUJIAN MINHUA POWER SOURCE CO., LTD.

www.mhb-battery.com

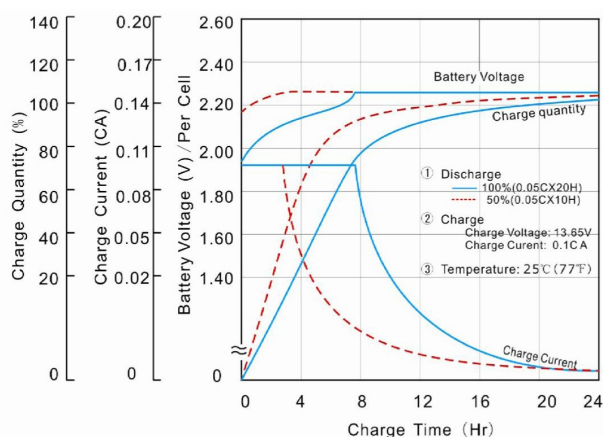
Terminal Voltage (V) and Discharge Time



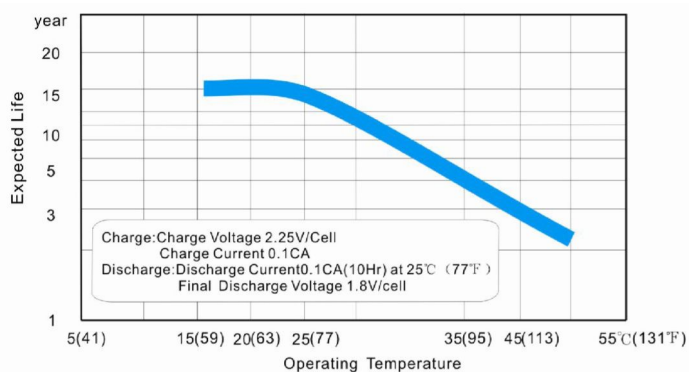
Capacity Retention Characteristic



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	7018.3	4678.8	2280.9	1539.9	953.31	721.13	587.78	487.18	428.70	348.87	292.43	149.72
1.80V/Cell	7200.0	4800.0	2340.0	1579.8	978.00	739.80	603.00	499.80	439.80	357.90	300.00	153.60
1.75V/Cell	7286.4	4857.6	2368.1	1598.8	989.74	748.68	610.24	505.80	445.08	362.19	303.60	155.44
1.70V/Cell	7942.2	5149.1	2510.2	1662.5	1007.2	761.85	620.98	514.70	452.91	368.57	308.94	158.18
1.67V/Cell	8743.7	5586.2	2723.3	1755.4	1017.9	770.01	627.63	520.21	457.76	372.52	312.25	159.87
1.60V/Cell	9472.3	5877.7	2865.4	1830.6	1028.9	778.33	634.40	525.83	462.70	376.54	315.62	161.60

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	13686	9123.7	4447.8	3002.9	1859.0	1406.2	1146.2	950.01	835.96	680.29	570.23	291.96
1.80V/Cell	14040	9360.0	4563.0	3080.6	1907.1	1442.6	1175.9	974.61	857.61	697.91	585.00	299.52
1.75V/Cell	14208	9472.3	4617.8	3117.6	1930.0	1459.9	1190.0	986.31	867.90	706.28	592.02	303.11
1.70V/Cell	15487	10041	4894.8	3242.0	1964.0	1485.6	1210.9	1003.7	883.18	718.71	602.44	308.45
1.67V/Cell	17050	10893	5310.4	3423.1	1985.0	1501.5	1223.9	1014.4	892.64	726.41	608.89	311.75
1.60V/Cell	18471	11462	5587.5	3569.6	2006.4	1517.7	1237.1	1025.4	902.27	734.25	615.46	315.12