

MHB ML Series—Longer service life Battery

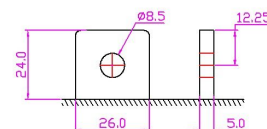
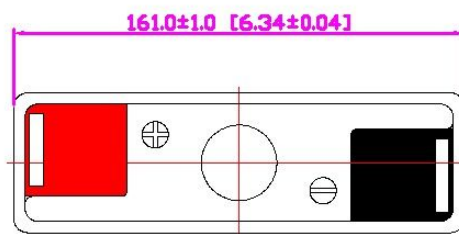
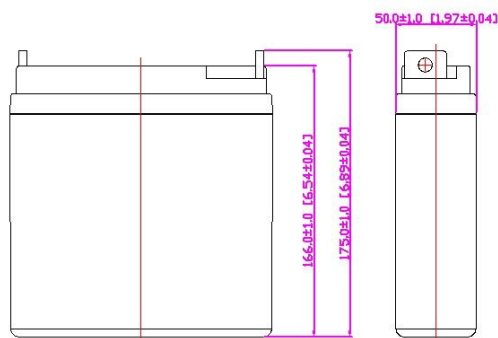
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 15 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle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

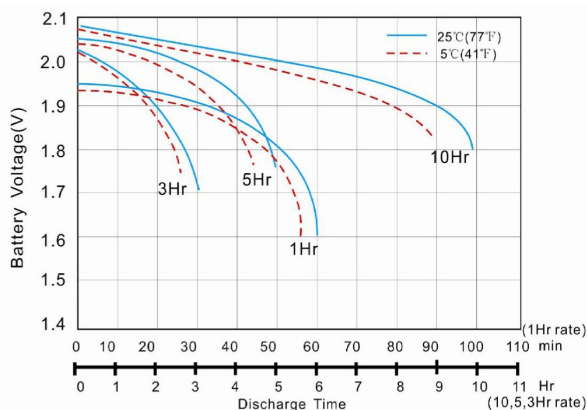


T17 Terminal

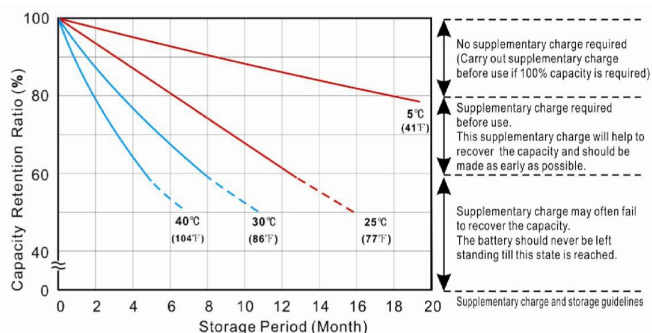
Speification:

Battery Model	ML 50 -2 2V50AH			
Designed Floating Life	Up to 15 Years			
Capacity (25℃)	20HR(2.560 A,1.80V)	10HR(5.00A,1.80V)	5HR(8.330A,1.80V)	1HR(26.330A,1.80V)
	51.20 AH	50.00 AH	41.65 AH	26.33 AH
Dimensions	Length	Width	Height	Total Height
	161 mm	50 mm	166 mm	175 mm
Approx. Weight	3.30 KG ± 3%			
Internal Resistance	Full charged at 25℃: ≤2.00 mΩ			
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	
	2.30-2.40V(-3.3mV/℃), max. Current:12.50A		2.20-2.35V (-3.3mV/℃)	

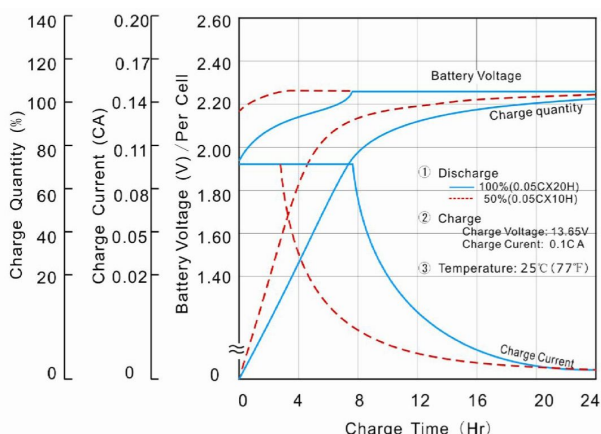
Terminal Voltage (V) and Discharge Time



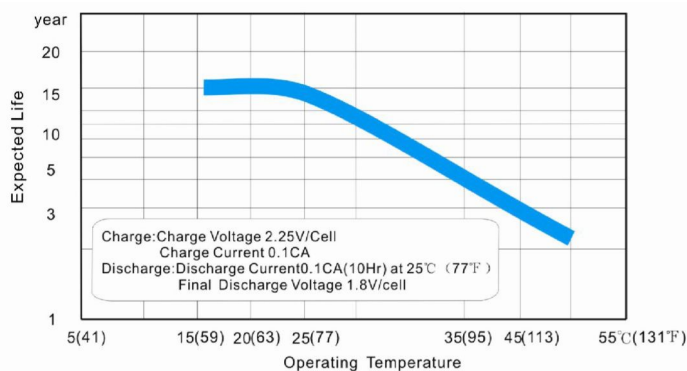
Capacity Retention Characteristic



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	116.97	77.98	38.02	25.67	15.89	12.02	9.80	8.12	7.14	5.81	4.87	2.50
1.80V/Cell	120.00	80.00	39.00	26.33	16.30	12.33	10.05	8.33	7.33	5.97	5.00	2.56
1.75V/Cell	121.44	80.96	39.47	26.65	16.50	12.48	10.17	8.43	7.42	6.04	5.06	2.59
1.70V/Cell	132.37	85.82	41.84	27.71	16.79	12.70	10.35	8.58	7.55	6.14	5.15	2.61
1.67V/Cell	145.73	93.10	45.39	29.26	16.97	12.83	10.46	8.67	7.63	6.21	5.20	2.66
1.60V/Cell	157.87	97.96	47.76	30.51	17.15	12.97	10.57	8.76	7.71	6.28	5.26	2.69

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	228.09	152.06	74.13	50.05	30.98	23.44	19.10	15.83	13.93	11.34	9.50	4.87
1.80V/Cell	234.00	156.00	76.05	51.34	31.79	24.04	19.60	16.24	14.29	11.63	9.75	4.99
1.75V/Cell	236.81	157.87	76.96	51.96	32.17	24.33	19.83	16.44	14.47	11.77	9.87	5.05
1.70V/Cell	258.12	167.34	81.58	54.03	32.73	24.76	20.18	16.73	14.72	11.98	10.04	5.14
1.67V/Cell	284.17	181.55	88.51	57.05	33.08	25.03	20.40	16.91	14.88	12.11	10.15	5.20
1.60V/Cell	307.85	191.03	93.12	59.49	33.44	25.30	20.62	17.09	15.04	12.24	10.26	5.25