

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

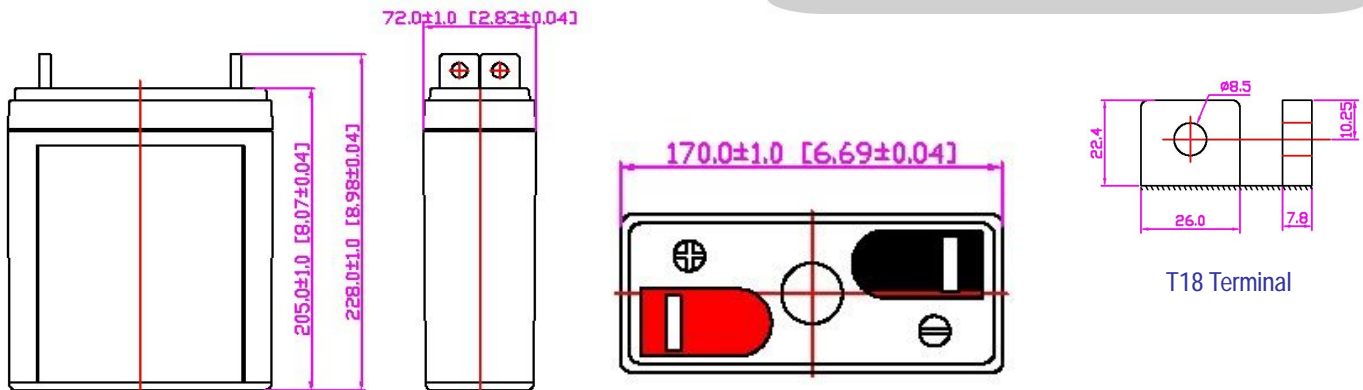
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 15 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle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

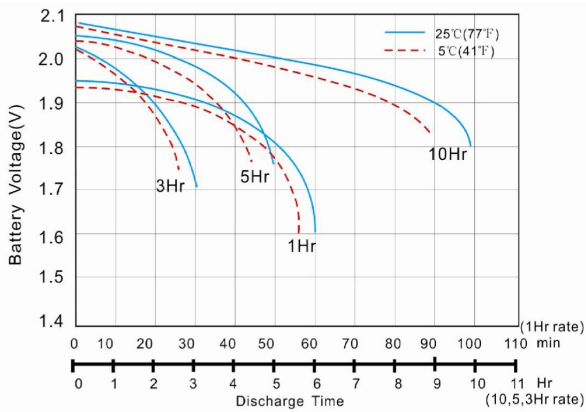


#### Specification:

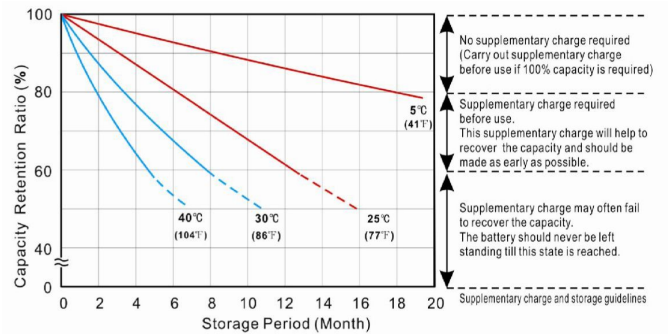
Battery Model	ML 100 -2 2V100AH			
Designed Floating Life	Up to 15 Years			
Capacity (25°C)	20HR(5.120 A,1.80V)	10HR(10.000A,1.80V)	5HR(16.660A,1.80V)	1HR(52.660A,1.80V)
	102.40 AH	100.00 AH	83.30 AH	52.66 AH
Dimensions	Length	Width	Height	Total Height
	170 mm	72 mm	205 mm	228 mm
Approx. Weight	5.90 KG ± 3%			
Internal Resistance	Full charged at 25°C: ≤2.00mΩ			
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:25.00A		2.20-2.25V (-3.3mV/°C)	

**FUJIAN MINHUA POWER SOURCE CO., LTD.**

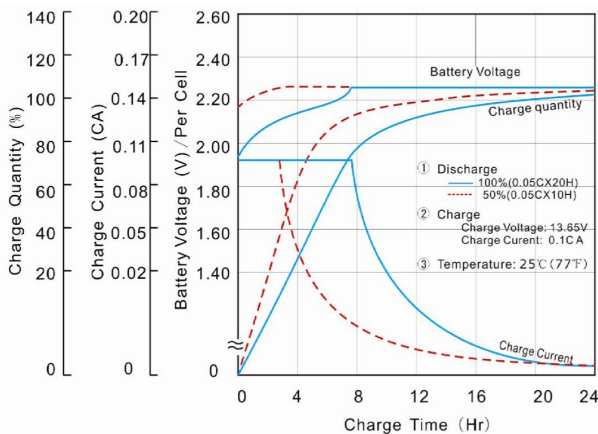
Terminal Voltage (V) and Discharge Time



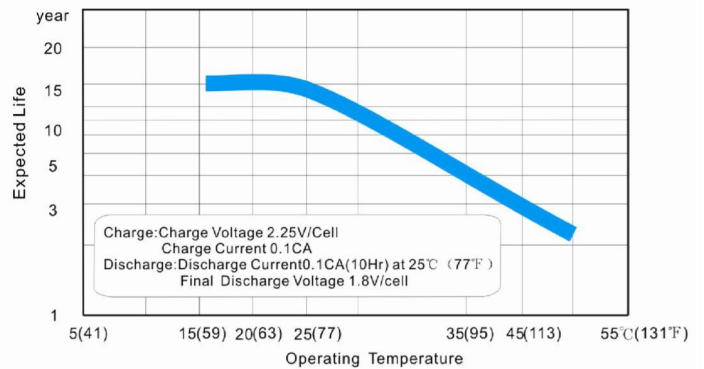
Capacity Retention Characteristic



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
1.60V/Cell	315.74	195.92	95.51	61.02	34.30	25.94	21.15	17.53	15.42	12.55	10.52	5.39

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	456.19	304.12	148.26	100.10	61.97	46.87	38.21	31.67	27.87	22.68	19.01	9.73
1.80V/Cell	468.00	312.00	152.10	102.69	63.57	48.09	39.20	32.49	28.59	23.26	19.50	9.98
1.75V/Cell	473.62	315.74	153.93	103.92	64.33	48.66	39.67	32.88	28.93	23.54	19.73	10.10
1.70V/Cell	516.24	334.69	163.16	108.07	65.47	49.52	40.36	33.46	29.44	23.96	20.08	10.28
1.67V/Cell	568.34	363.11	177.01	114.10	66.17	50.05	40.80	33.81	29.75	24.21	20.30	10.39
1.60V/Cell	615.70	382.05	186.25	118.99	66.88	50.59	41.24	34.18	30.08	24.47	20.52	10.50