

MN Deep Cycle Battery

MHB MN Series—Deep Cycle SLA Battery

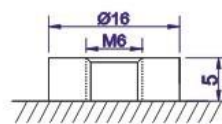
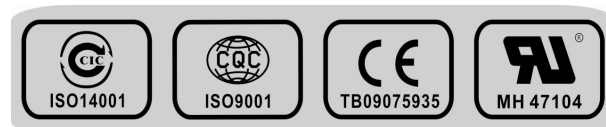
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 10 years
- Cycle use 1: Up to 350 cycles at 100% DOD
- Cycle use 2: Up to 650 cycles at 50% DOD

Application:

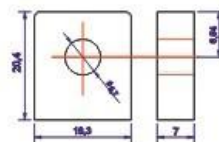
- Telecommunications
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

Construction:

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



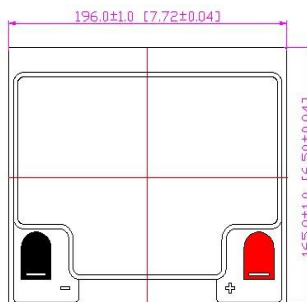
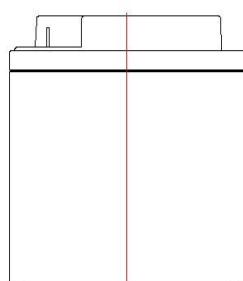
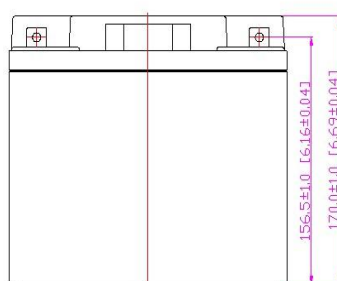
M6 Bolt



M6 Bolt & Nut

B4 Terminal

T11 Terminal



Speification:

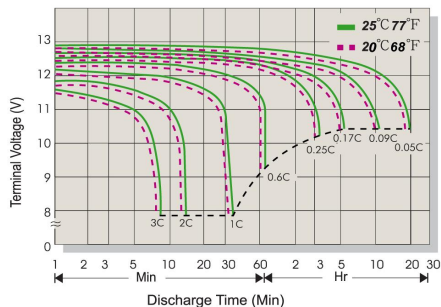
Battery Model	MN 38-12 12V38AH			
Designed Floating Life	Up to 10 Years			
Capacity (25℃)	20HR(1.978A, 10.8V)	10HR(3.80A, 10.8V)	5HR(7.255A, 10.5V)	1HR(24.29A, 10.5V)
	39.56AH	38.00AH	36.27AH	24.29AH
Dimensions	Length	Width	Height	Total Height
	196mm (7.72inch)	165mm (6.50inch)	150mm (6.10inch)	170mm (6.69inch)
Approx. Weight	13.2Kg ±3%			
Internal Resistance	Full charged at 25℃: ≤16.0mΩ			
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	
	14.40-15.00V(-30mV/℃), max.Current:11.40A		13.50-13.80V (-20mV/℃)	

FUJIAN MINHUA POWER SOURCE CO., LTD.

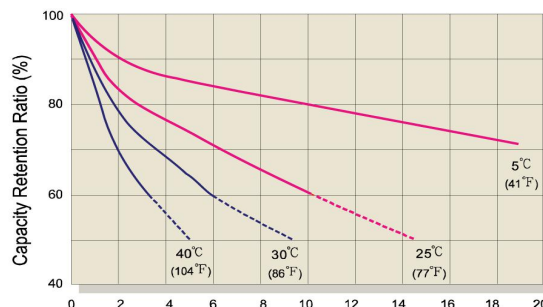
www.mhb-battery.com sales@mhb-battery.com info@mhb-battery.com

V-0 2011-11-20

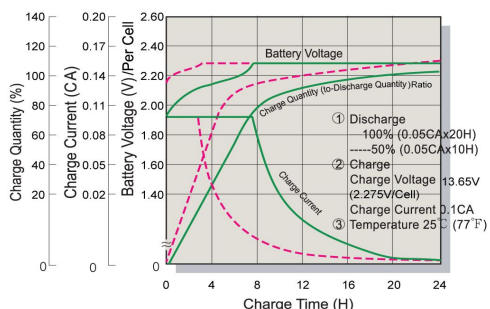
Terminal Voltage (V) and Discharge Time



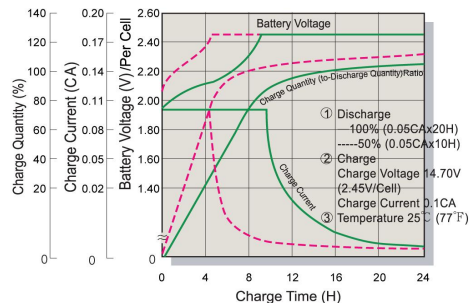
Capacity Retention Characteristic



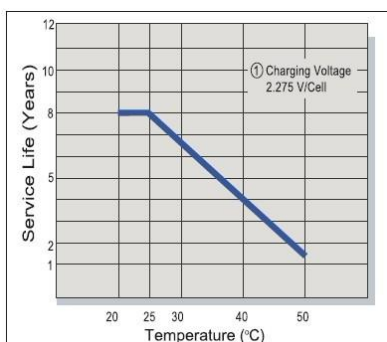
Battery Voltage and Charge Time for Standby Use



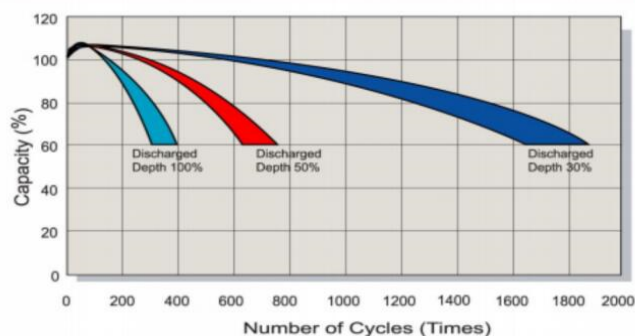
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



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

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	132.53	78.24	61.49	40.08	23.39	13.52	10.38	8.527	6.988	5.696	3.733	1.941
1.80V/Cell	135.07	79.73	62.66	40.85	23.84	13.78	10.58	8.690	7.121	5.805	3.800	1.978
1.75V/Cell	137.60	81.23	63.84	41.61	24.29	14.04	10.78	8.853	7.255	5.914	3.876	2.016
1.70V/Cell	149.98	86.10	67.67	43.27	24.71	14.29	10.97	9.009	7.382	6.018	3.944	2.051
1.67V/Cell	165.12	93.41	73.42	45.69	24.98	14.44	11.09	9.105	7.461	6.083	3.986	2.073

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

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	258.44	152.56	119.91	78.16	45.62	26.37	20.25	16.63	13.63	11.11	7.28	3.79
1.80V/Cell	263.38	155.48	122.20	79.66	46.49	26.87	20.64	16.95	13.89	11.32	7.41	3.86
1.75V/Cell	268.31	158.39	124.49	81.15	47.36	27.38	21.02	17.26	14.15	11.53	7.56	3.93
1.70V/Cell	292.46	167.89	131.96	84.39	48.19	27.86	21.39	17.57	14.40	11.74	7.69	4.00
1.67V/Cell	321.98	182.15	143.16	89.10	48.71	28.16	21.62	17.76	14.55	11.86	7.77	4.04