



VRLA Battery

MM40-12 12V 40Ah

MM Series SLA Battery

MHB MS Series--Small-size batteries

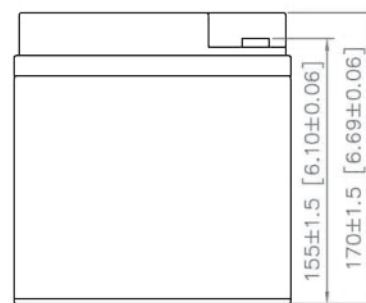
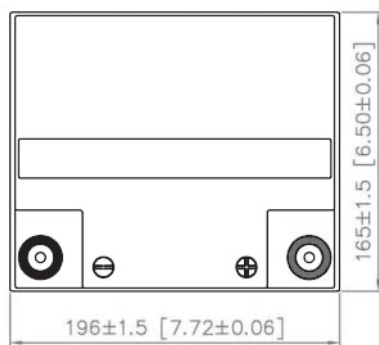
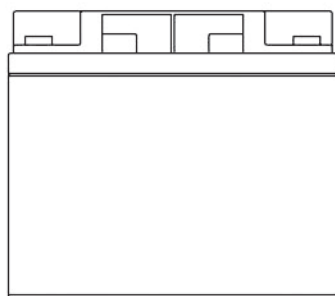
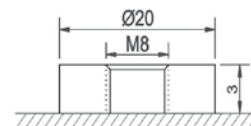
- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: up to 8 years

Application:

- Alarm System
- Cable Television
- Communication Equipment
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Power tools
- Control Equipment
- Toys

Construction:

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



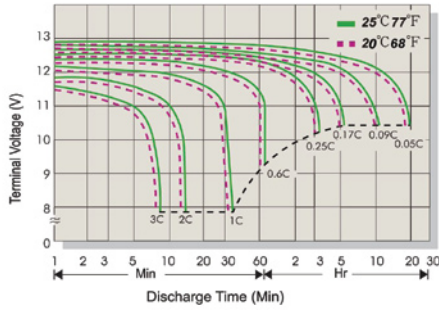
Specification:

Battery Model	MM 40-12 12V40AH			
Designed Floating Life	Up to 8 Years			
Capacity@(25°C)	20HR(2.08A,10.8V)	10HR(4.00 A,10.8V)	5HR(7.636A,10.5V)	1HR(25.57A,10.5V)
	41.66AH	40.00AH	38.18AH	25.57AH
Dimensions	Length	Width	Height	Total Height
	196mm (7.72inch)	165mm (6.50inch)	155mm (6.11inch)	170mm (6.69inch)
Approx. Weight	13.80Kg (30.43 lbs)			
Internal Resistance	Full charged at 25°C: ≤ 10.0mΩ			
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	
	14.4-15.0V(-30mV/°C), max. Current: 10.0A		13.5-13.8V (-20mV/°C)	

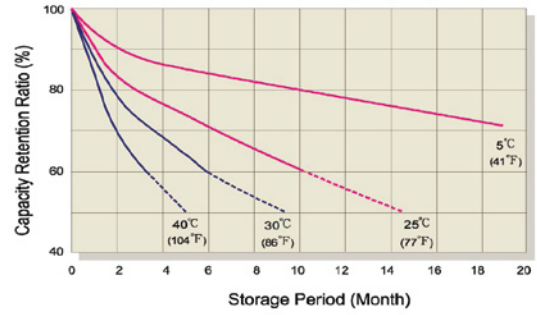
FUJIAN MINHUA POWER SOURCE CO., LTD.

www.mhb-battery.com

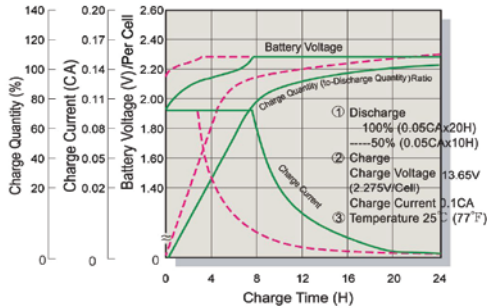
Terminal Voltage (V) and Discharge Time



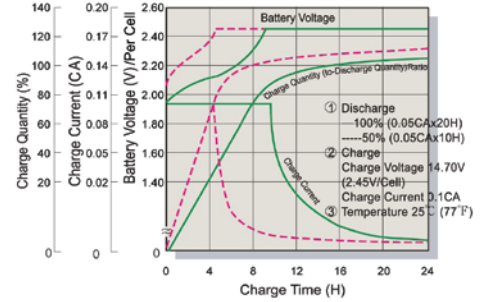
Capacity Retention Characteristic



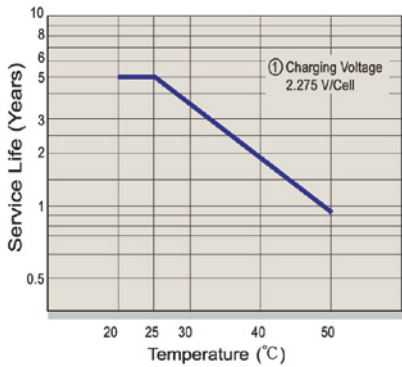
Battery Voltage and Charge Time for Standby Use



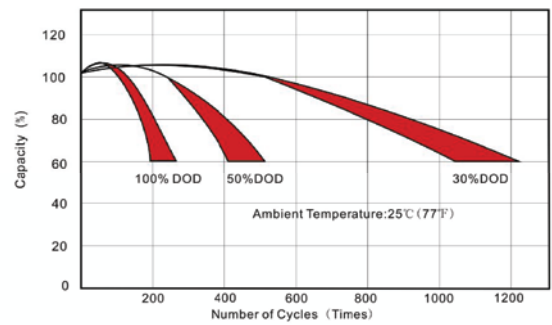
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



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

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	139.51	82.35	64.73	42.19	24.62	14.23	10.93	8.976	7.355	5.996	3.930	2.044
1.80V/Cell	142.17	83.93	65.96	43.00	25.09	14.51	11.14	9.147	7.496	6.111	4.000	2.083
1.75V/Cell	144.84	85.50	67.20	43.80	25.57	14.78	11.35	9.319	7.636	6.225	4.080	2.122
1.70V/Cell	157.87	90.63	71.23	45.55	26.02	15.04	11.55	9.483	7.771	6.335	4.152	2.159
1.67V/Cell	173.81	98.33	77.28	48.10	26.29	15.20	11.67	9.585	7.854	6.403	4.196	2.182

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

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	272.04	160.59	126.22	82.28	48.02	27.76	21.32	17.50	14.34	11.69	7.66	3.98
1.80V/Cell	277.24	163.66	128.63	83.85	48.94	28.29	21.72	17.84	14.62	11.92	7.80	4.06
1.75V/Cell	282.44	166.73	131.04	85.42	49.85	28.82	22.13	18.17	14.89	12.14	7.96	4.14
1.70V/Cell	307.86	176.73	138.90	88.83	50.73	29.33	22.52	18.49	15.15	12.35	8.10	4.21
1.67V/Cell	338.92	191.73	150.70	93.79	51.27	29.64	22.76	18.69	15.32	12.49	8.18	4.26