VRLA Battery

MS 5.2-12 12V5.2AH

MS Series SLA Battery

MHB MS Series--Small-size batteries

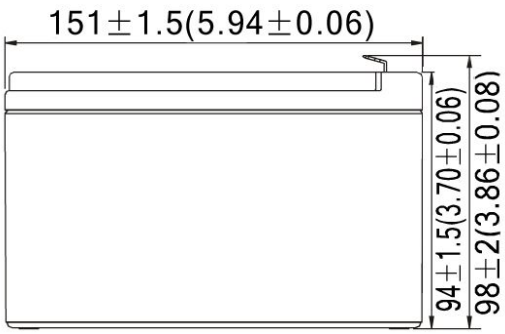
- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years

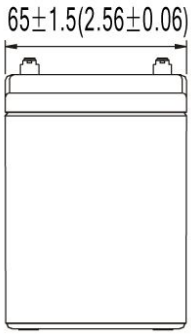
Application:

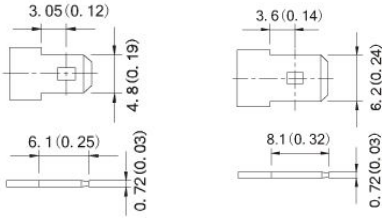
- Alarm System
- Cable Television
- Communication Equipment
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Power tools
- Control Equipment
- Toys

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







F1 Terminal F2 Terminal

Speification:

Battery Model	MS 5.2-12 12V5.2AH			
Designed Floating Life	3～5 Years			
Capacity (25℃)	20HR(0.26A,10.5V)	10HR(0.492A,10.5V)	5HR(0.884A,10.5V)	1HR(3.01A,10.5V)
	5.2AH	4.92AH	4.42AH	3.01AH
Dimensions	Length	Width	Height	Total Height
	151mm (5.94inch)	65mm (2.56inch)	94mm (3.70inch)	98mm (3.86inch)
Approx. Weight	1.88Kg (4.15 lbs) ±5%			
Internal Resistance	Full charged at 25℃ : ≤45mΩ			
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	
	14.4-15.0V(-30mV/℃), max. Current: 1.56A		13.5-13.8V (-20mV/℃)	

FUJIAN MINHUA POWER SOURCE CO., LTD.

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MHB BATTERY

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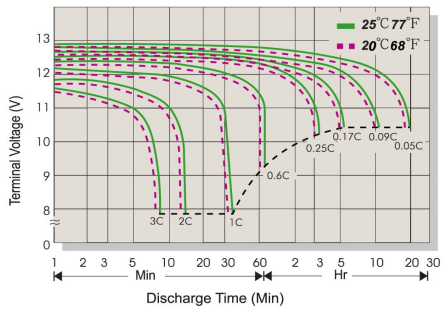
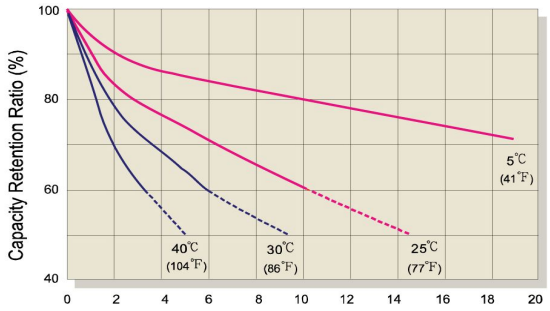
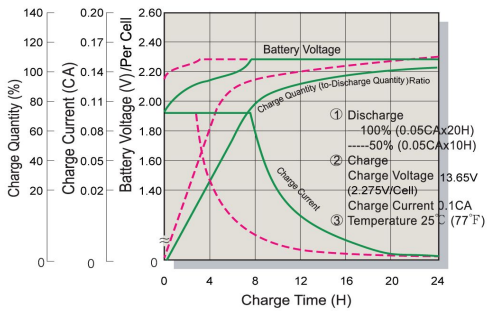
Terminal Voltage (V) and Discharge Time



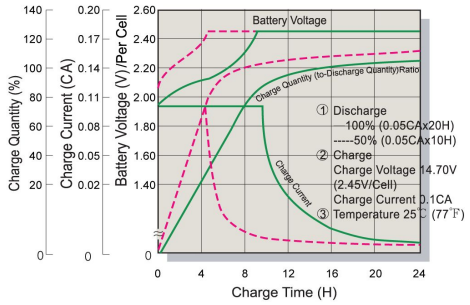
Capacity Retention Characteristic



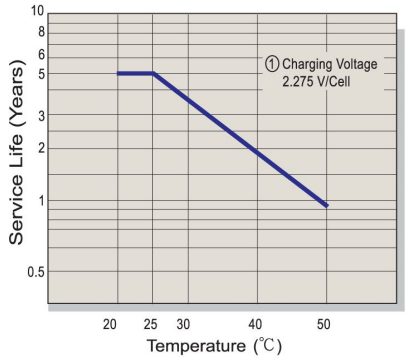
Battery Vlotage and Charge Time for Standby Use



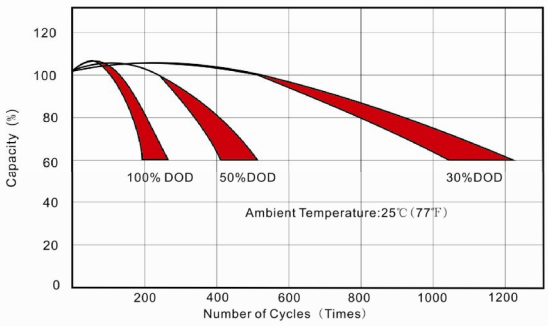
Battery Vlotage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25℃(77℉)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	14.34	10.19	7.93	4.92	2.90	1.69	1.29	1.025	0.851	0.727	0.474	0.250
1.80V/Cell	14.62	10.39	8.08	5.01	2.96	1.73	1.31	1.044	0.868	0.741	0.483	0.255
1.75V/Cell	14.89	10.58	8.24	5.11	3.01	1.76	1.34	1.064	0.884	0.755	0.492	0.260
1.70V/Cell	16.23	11.22	8.73	5.31	3.06	1.79	1.36	1.083	0.899	0.768	0.501	0.265
1.67V/Cell	17.87	12.17	9.47	5.61	3.10	1.81	1.38	1.094	0.909	0.777	0.507	0.267
1.60V/Cell	19.36	12.80	9.96	5.85	3.13	1.83	1.39	1.106	0.919	0.785	0.512	0.270
Constant Power Discharge (CP,Unit:W) at 25℃(77℉)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	27.97	19.88	15.47	9.59	5.66	3.30	2.51	2.00	1.66	1.42	0.93	0.49
1.80V/Cell	28.50	20.26	15.76	9.78	5.76	3.37	2.56	2.04	1.69	1.45	0.94	0.50
1.75V/Cell	29.04	20.63	16.06	9.96	5.87	3.43	2.61	2.07	1.72	1.47	0.96	0.51
1.70V/Cell	31.65	21.87	17.02	10.36	5.97	3.49	2.66	2.11	1.75	1.50	0.98	0.52
1.67V/Cell	34.84	23.73	18.47	10.94	6.04	3.53	2.68	2.13	1.77	1.51	0.99	0.52
1.60V/Cell	37.75	24.97	19.43	11.41	6.10	3.57	2.71	2.16	1.79	1.53	1.00	0.53