VRLA Battery **MNG 100-12** **12V100AH**

MNG Series GEL Battery

MHB MNG Series-- Storage-type Gelled Battery

- completely sealed and maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula, Gelled electrolyte formula and updated manufacturing technique
- Floating & standby use:up to 12 years
- Cycle use 1: More than 350 cycles at 100% DOD
- Cycle use2: More than 1800cycles at 30% DOD

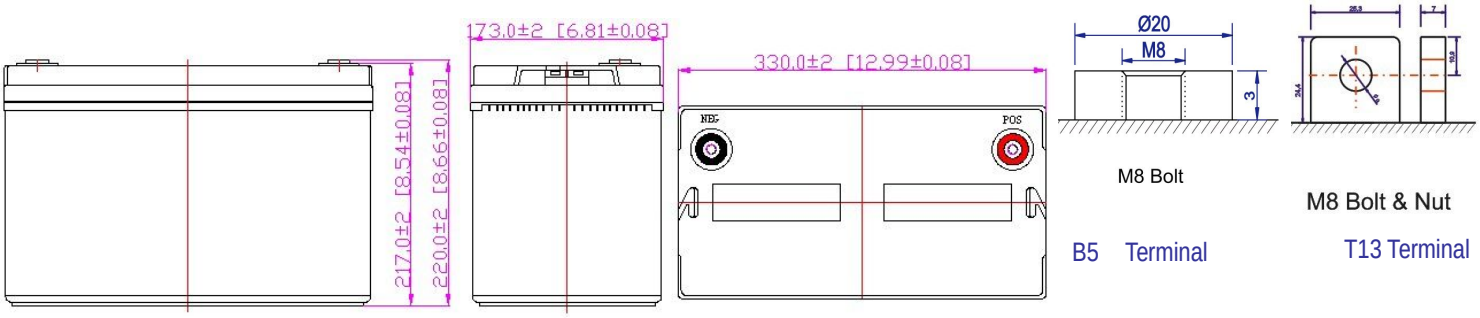
Application:

- Telecommunications
- UPS/EPS
- DC PowerSupply
- Solar system
- Wind Power System
- Auto Control Sytem

Construction:

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper/Pb
- Separator .....Fiber glass
- Electrolyte ..... Gelled acid

ISO14001 ISO9001 TB09075935 MH 47104



Speification:

Battery Model	MNG 100-12 12V100AH			
Designed Floating Life	Up to10 Years			
Capacity (25℃)	20HR(5.310A,10.8V)	10HR(10.000A,10.8V)	5HR(17.790A,10.5V)	1HR(55.010A,10.5V)
	106.20 AH	100.00 AH	88.95 AH	55.01 AH
Dimensions	Length	Width	Height	Total Height
	330 mm	173 mm	217 mm	220 mm
Approx. Weight	31.00 KG±3%			
Internal Resistance	Full charged at 25℃:≤6.70 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(25oC)	Cycle use		Float use	
	14.4-15.0V(-30mV/℃), max. Current: 30.00A		13.5-13.8V (-20mV/℃)	

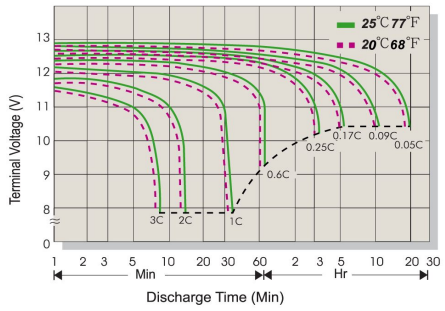
FUJIAN MINHUA POWER SOURCE CO., LTD.

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

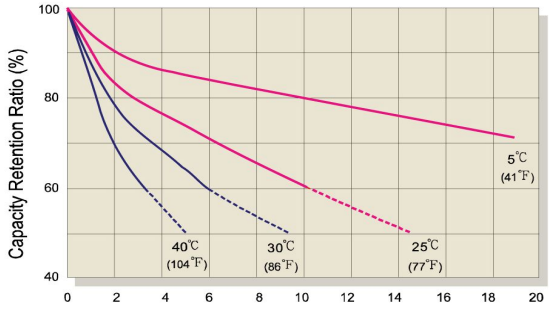
MHB BATTERY

VRLA Battery MNG 100-12 12V100AH

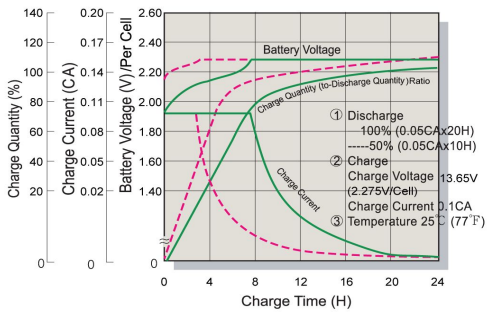
Terminal Voltage (V) and Discharge Time



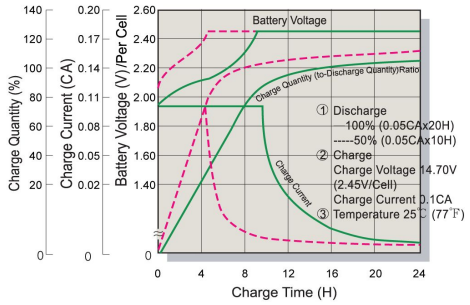
Capacity Retention Characteristic



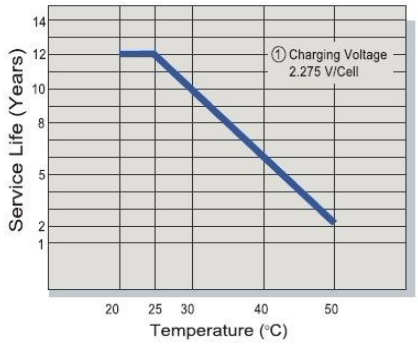
Battery Vlotage and Charge Time for Standby Use



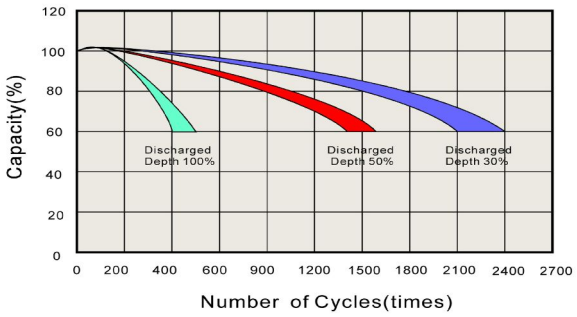
Battery Vlotage and Charge Time for Cycle Use



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
1.80V/Cell	314.3	213.8	146.4	89.03	54.55	34.04	26.47	20.82	17.64	11.79	10.00	5.31
1.75V/Cell	317.0	215.6	147.6	89.78	55.01	34.33	26.69	20.99	17.79	11.89	10.13	5.39
1.70V/Cell	324.9	221.0	151.3	92.03	56.39	35.19	27.36	21.52	18.24	12.19	10.28	5.47
1.67V/Cell	332.8	226.4	155.0	94.27	57.76	36.05	28.03	22.04	18.68	12.48	10.40	5.55
1.60V/Cell	347.6	236.5	161.9	98.47	60.33	37.65	29.27	23.02	19.52	13.04	10.55	5.63

Constant Power Discharge (CP,Unit:W) at 25℃(77℉)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	612.9	416.9	285.5	173.6	106.4	66.38	51.61	40.59	34.41	22.99	19.50	10.36
1.75V/Cell	618.1	420.5	287.9	175.1	107.3	66.95	52.05	40.94	34.70	23.18	19.75	10.52
1.70V/Cell	633.5	431.0	295.1	179.4	110.0	68.62	53.35	41.96	35.57	23.76	20.05	10.67
1.67V/Cell	649.0	441.5	302.3	183.8	112.6	70.29	54.65	42.98	36.43	24.34	20.28	10.83
1.60V/Cell	677.9	461.1	315.7	192.0	117.6	73.42	57.08	44.90	38.06	25.42	20.57	10.98