MinuteBank

VRLA Battery **MM 150-12** 12V150AH

Medium-size Battery

MM Series

Medium-size Battery

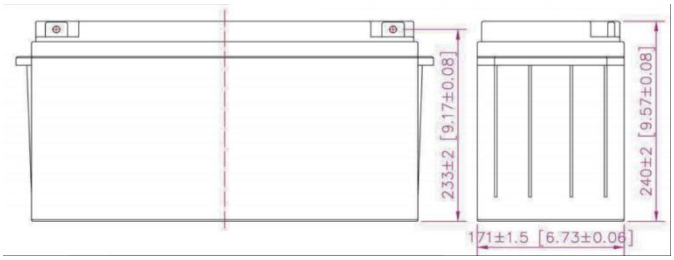
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use:10 to 12 years (Design life is based on ideal conditions; actual battery lifespan may vary with usage, maintenance, and environment.)
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

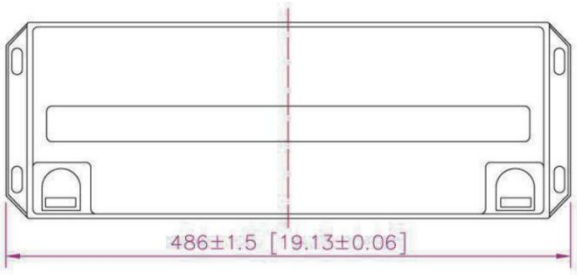
Application:

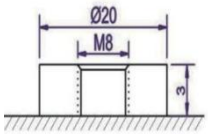
- Telecommunications
- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

Construction:

- Component.....Raw material
- Positive.....Lead dioxide
- Negative.....Lead
- Container.....UL94-HB (Optional UL94-V0)
- Cover.....UL94-HB (Optional UL94-V0)
- Sealant..... Epoxy
- Safety valve.....Rubber
- Terminal.....Copper/Pb
- Separator..... Fiber glass
- Electrolyte.....Sulfuric acid







M8 Bolt

B5 Terminal

Specification:

Battery Model	MM 150-12 12V150AH			
Designed Floating Life	10 to 12 years			
Capacity (25℃)	20HR(7.850 A,10.8V)	10HR(15.000A,10.8V)	5HR(24.200A,10.5V)	1HR(81.300A,10.5V)
	157.000 AH	150.00 AH	121.00AH	81.30 AH
Dimensions	Length	Width	Height	Total Height
	486 mm	171 mm	240mm	240mm
Approx. Weight	43.00KG ±3%			
Internal Resistance	Full charged at 25℃: ≤ 4.5mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
max discharge current	528A			
Capacity Affected by Temp.(20HR)	40℃	25℃	0℃	-15℃
	102%	100%	85%	65%
Charge Voltage(25℃)	Cycle use		Float use	
	14.4-14.6V(-30mV/℃), max. Current:37.50A		13.5-13.8V (-20mV/℃)	

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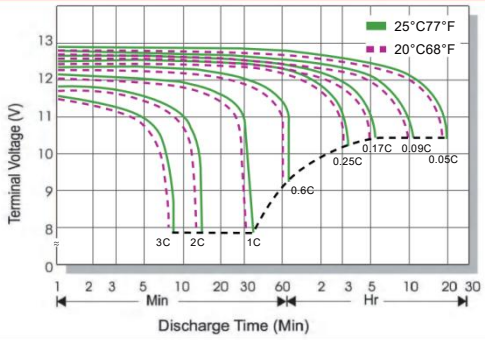
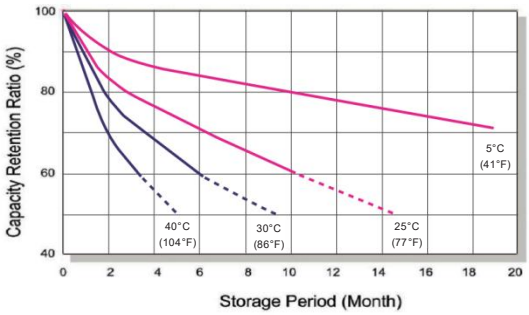
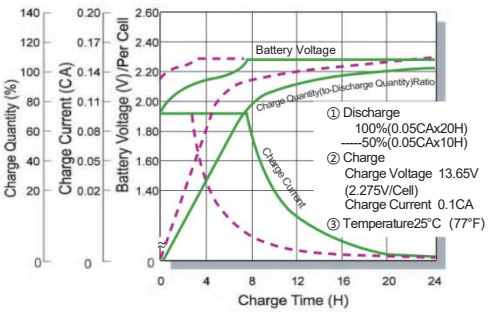
Terminal Voltage (V) and Discharge Time



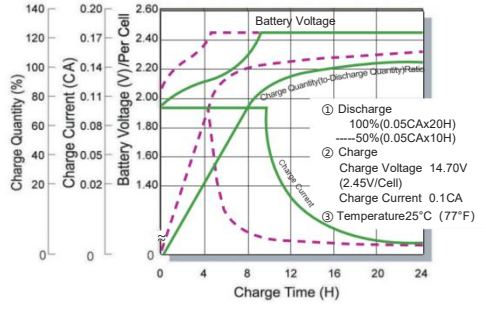
Capacity Retention Characteristic



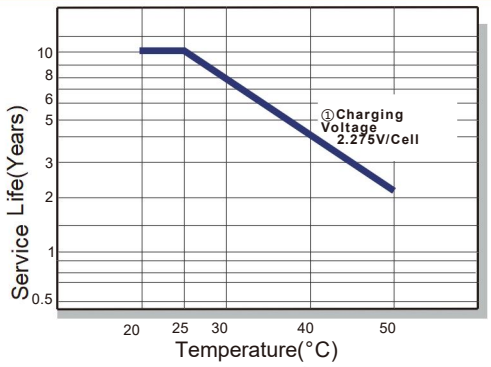
Battery Vlotage and Charge Time for Standby Use



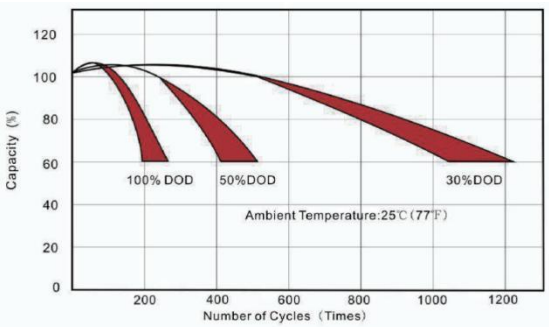
Battery Vlotage and Charge Time for Cycle Use



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
1.80V/Cell	348.4	271.8	216.4	131.6	80.6	50.32	39.12	30.77	23.99	21.08	15.00	7.85
1.75V/Cell	351.4	274.1	218.2	132.7	81.3	50.74	39.45	31.03	24.20	21.26	15.23	7.97
1.70V/Cell	360.2	281.0	223.7	136.0	83.3	52.01	40.44	31.80	24.80	21.79	15.45	8.09
1.67V/Cell	368.9	287.8	229.1	139.3	85.4	53.28	41.42	32.58	25.40	22.32	15.68	8.21
1.60V/Cell	385.4	300.6	239.3	145.5	89.2	55.65	43.27	34.03	26.53	23.32	15.90	8.32

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	637.5	497.3	402.5	240.8	151.6	95.10	74.72	60.00	46.31	40.89	29.40	15.46
1.75V/Cell	643.0	501.6	405.9	242.8	152.9	95.90	75.35	60.51	46.70	41 24	29.85	15.70
1.70V/Cell	659.1	514.2	416.1	248.9	156.7	98.30	77.24	62.01	47.87	42 28	30.28	15.94
1.67V/Cell	675.1	526.6	426.1	254.9	160.5	100.70	79.11	63.53	49.02	43.31	30.73	16.17
1.60V/Cell	705.2	550.0	445.1	266.3	167.6	105.18	82.65	66.36	51.21	45 23	31.16	16.39