MinuteBank

VRLA Battery **MM 55-12** 12V55AH

Medium-size Battery

MM Series

Medium-size Battery

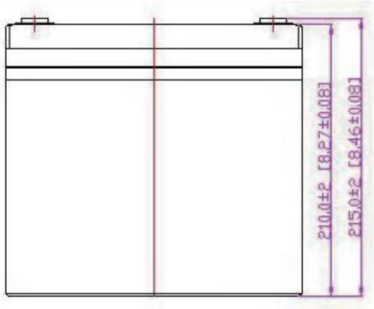
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating&standby use:10 to 12 years (Design life is based on ideal conditions; actual battery 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

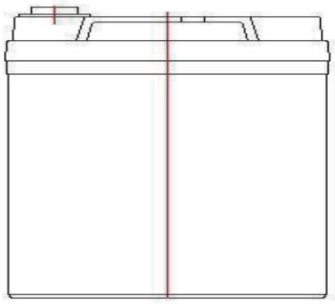
Application:

- 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

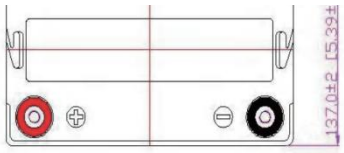
Construction:

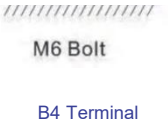
- Component Raw material
- Positive Lead dioxide
- Negative .....Lead
- Container .....UL94-HB (Optional: UL94-V0)
- Cover.....UL94-HB (Optional: UL94-V0)
- Sealant..... Epoxy
- Safety valve.....Rubber
- Terminal.....Copper/Pb
- Separator.....Fiber/glass
- Sealant .....Epoxy
- Electrolyte .....Sulfuric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





ISO9001 ISO14001 ISO45001 CE





Specification:

Battery Model	MM55-12 12V55AH			
Designed Floating Life	10 to 12 years			
Capacity (25℃)	20HR(2.880A,10.8V)	10HR(5.500A,10.8V)	5HR(9.640A,10.5V)	1HR(29.810A,10.5V)
	57.60 AH	55.00AH	48.20 AH	29.81 AH
Dimensions	Length	Width	Height	Total Height
	230 mm	137 mm	210 mm	215 mm
Approx. Weight	17.50Kg ±3%			
Internal Resistance	Full charged at 25℃: ≤6.6 mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
max discharge current	211.2A			
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:15.00A		13.50-13.80V (-20mV/℃)	

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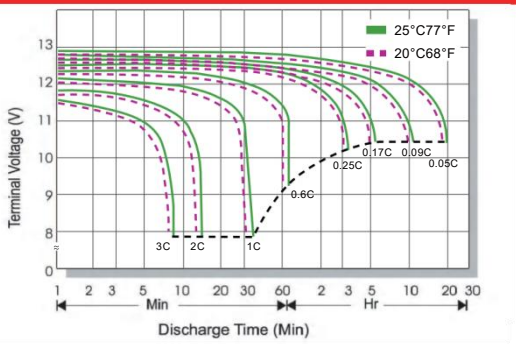
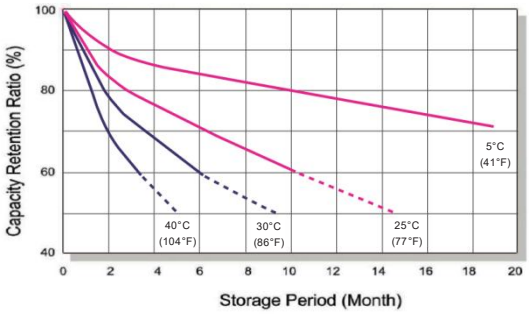
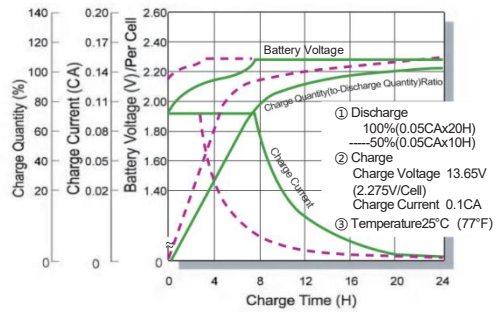
Terminal Voltage (V) and Discharge Time



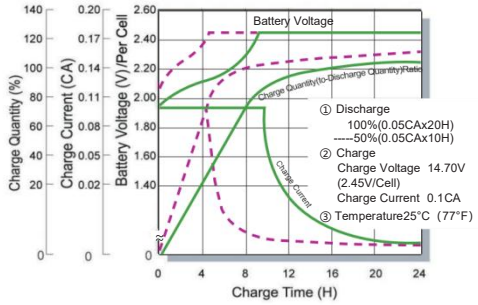
Capacity Retention Characteristic



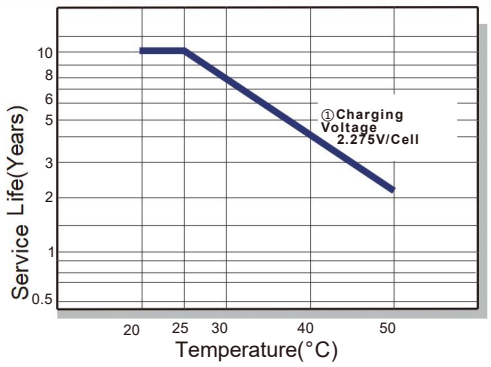
Battery Vlotage and Charge Time for Standby Use



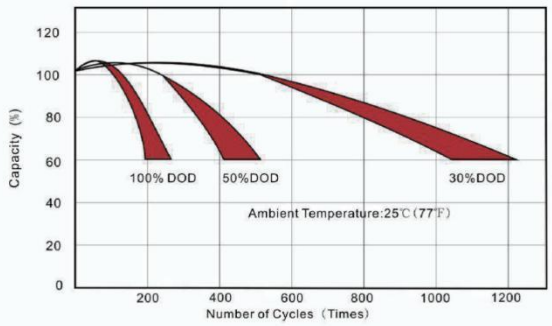
Battery Vlotage and Charge Time for Cycle Use



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	155.0	115.9	79.3	48.3	29.6	18.45	13.05	11.28	9.05	7.92	5.50	2.88
1.75V/Cell	156.2	116.9	80.0	48.7	29.8	18.61	13.16	11.38	9.53	7.99	5.58	2.92
1.70V/Cell	160.2	119.8	82.0	49.9	30.6	19.07	13.50	11.66	9.70	8.18	5.67	2.97
1.67V/Cell	164.1	122.7	84.0	51.1	31.3	19.54	13.82	11.95	9.91	8.38	5.75	3.01
1.60V/Cell	171.4	128.2	87.8	53.4	32.7	20.41	14.43	12.48	10.10	8.77	5.83	3.05
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	283.6	212.0	147.6	88.3	55.6	34.87	24.92	22.00	18.50	15.37	10.78	5.67
1.75V/Cell	285.9	213.8	148.8	89.0	56.0	35.17	25.13	22.19	19.32	15.49	10.94	5.75
1.70V/Cell	293.1	219.2	152.5	91.3	57.5	36.04	25.78	22.74	19.61	15.88	11.11	5.85
1.67V/Cell	300.3	224.5	156.3	93.5	58.8	36.93	26.40	23.30	19.82	16.26	11.27	5.93
1.60V/Cell	313.6	234.5	163.2	97.6	61.5	38.57	27.57	24.34	20.40	17.01	11.43	6.01