MinuteBank

VRLA Battery **MM 65-12** 12V65AH

MM Series
Medium-size Battery

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

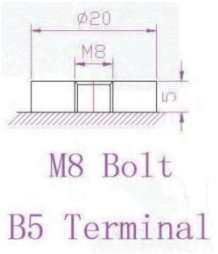
ISO9001 ISO14001 ISO45001

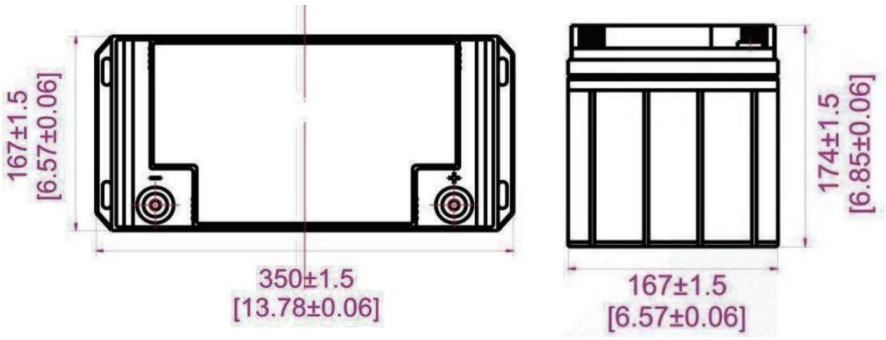
Application:

- 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
- Separator..... Fiber glass
- Electrolyte.....Sulfuric acid





Specification:

Battery Model	MM 65-12 12V65AH			
Designed Floating Life	10 to 12 years			
Capacity (25℃)	20HR(3.400A,10.8V)	10HR(6.500A,10.8V)	5HR(10.720A,10.5V)	1HR(35.200A,10.5V)
	68.00 AH	65.00 AH	57.00 AH	35.20AH
Dimensions	Length	Width	Height	Total Height
	350 mm	167 mm	174 mm	174 mm
Approx. Weight	20.00Kg ±3%			
Internal Resistance	Full charged at 25℃: ≤6.0 mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
max discharge current	240.2A			
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:16.25A		13.50-13.80V (-20mV/℃)	

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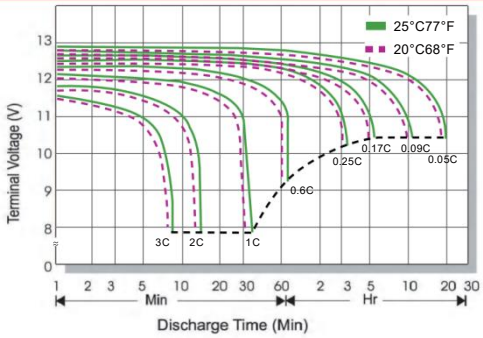
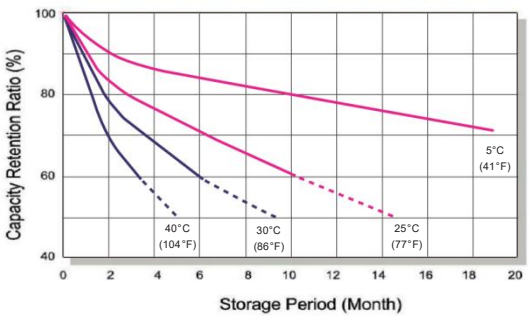
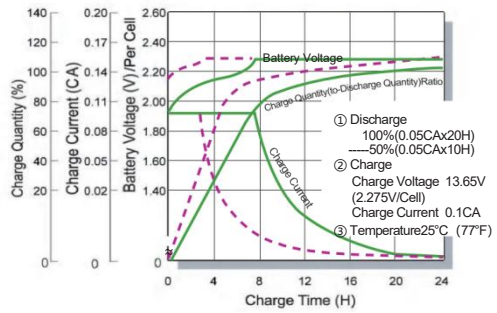
Terminal Voltage (V) and Discharge Time



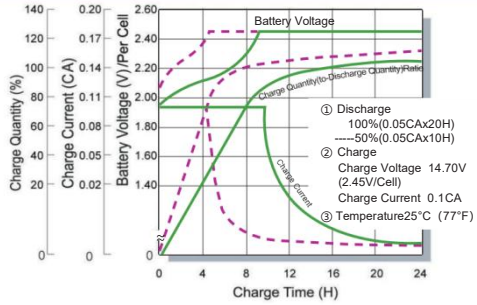
Capacity Retention Characteristic



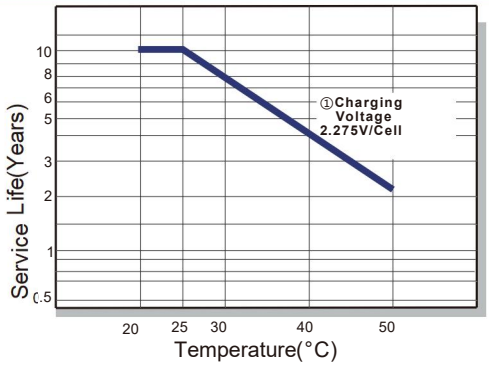
Battery Vlotage and Charge Time for Standby



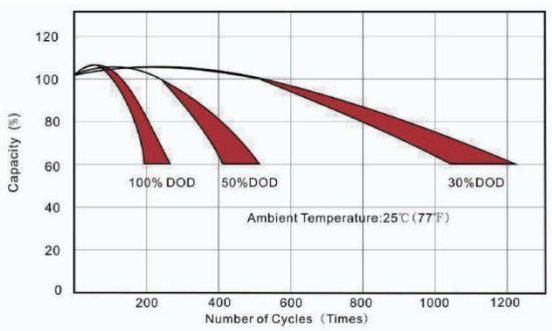
Battery Vlotage and Charge Time for Cycle Use



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	157.7	119.9	102.2	57.0	34.9	21.80	16.95	13.33	10.62	9.36	6.50	3.40
1.75V/Cell	172.1	127.8	103.1	57.5	35.2	21.99	17.09	13.45	10.72	9.44	6.60	3.45
1.70V/Cell	186.9	138.2	105.6	58.9	36.1	22.54	17.52	13.78	10.98	9.67	6.70	3.51
1.67V/Cell	194.6	145.0	108.2	60.4	37.0	23.09	17.95	14.12	11.25	9.91	6.79	3.56
1.60V/Cell	214.6	151.5	113.0	63.1	38.6	24.12	18.75	14.75	11.75	10.35	6.89	3.61
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	295.8	226.0	190.1	104.3	65.7	41.20	32.37	25.99	20.50	18.16	12.74	6.70
1.75V/Cell	317.8	240.6	191.7	105.2	66.2	41.56	32.64	26.23	20.68	18.31	12.94	6.80
1.70V/Cell	340.2	259.0	196.5	107.9	67.9	42.60	33.46	26.87	21.19	18.76	13.13	6.91
1.67V/Cell	355.6	265.4	201.3	110.5	69.5	43.64	34.28	27.53	21.72	19.22	13.31	7.01
1.60V/Cell	380.4	277.2	210.2	115.4	72.6	45.59	35.81	28.76	22.68	20.09	13.50	7.11