MinuteBank

VRLA Battery **MM 80-12** 12V80AH

Medium-size Battery

MM Series

Medium-size Battery

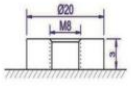
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: 10 to 12 years (Design life is based on ideal conditions; actual battery 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
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

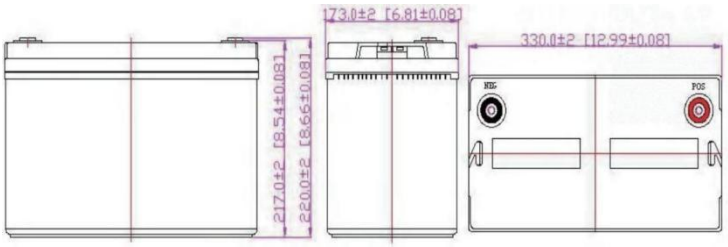
Construction:

- 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



B5 Terminal

ISO9001 ISO14001 ISO45001



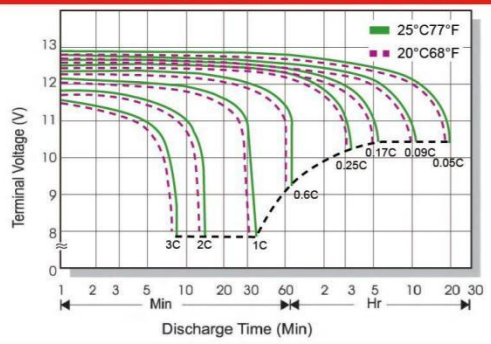
Specification:

Battery Model	MM 80-12 12V80AH			
Designed Floating Life	10 to 12 years			
Capacity (25℃)	20HR(4.290A,10.8V)	10HR(8.000A,10.8V)	5HR(13.070A,10.5V)	1HR(44.390A,10.5V)
	85.80AH	80.00 AH	65.35 AH	44.39AH
Dimensions	Length	Width	Height	Total Height
	330mm	173 mm	217 mm	220mm
Approx. Weight	25.50 KG±3%			
Internal Resistance	Full charged at 25℃:≤7.5 mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
max discharge current	274.5A			
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:20.00A		13.5-13.8V (-20mV/℃)	

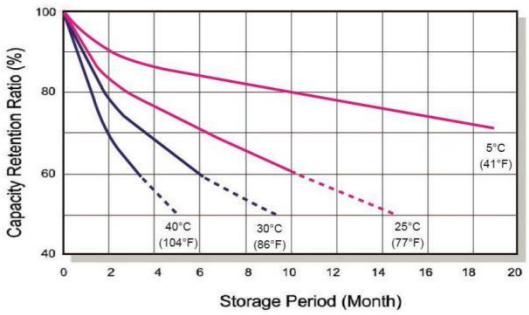
MinuteBank

VRLA Battery MM 80-12 12V80AH

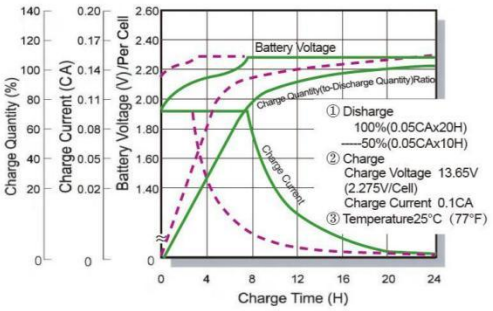
Terminal Voltage (V) and Discharge Time



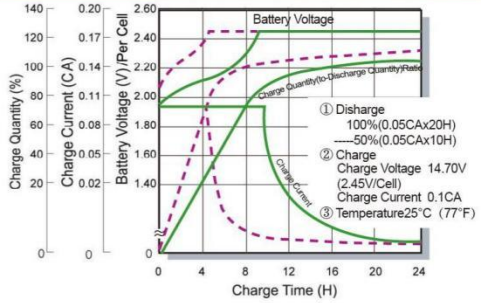
Capacity Retention Characteristic



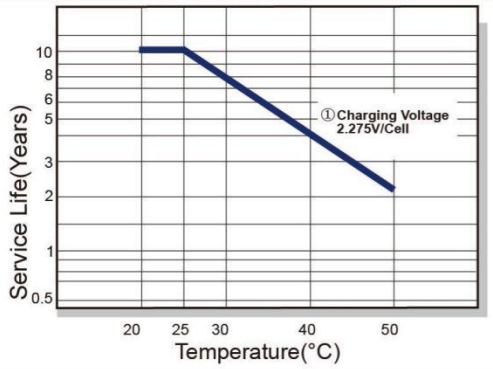
Battery Vlotage and Charge Time for Standby Use



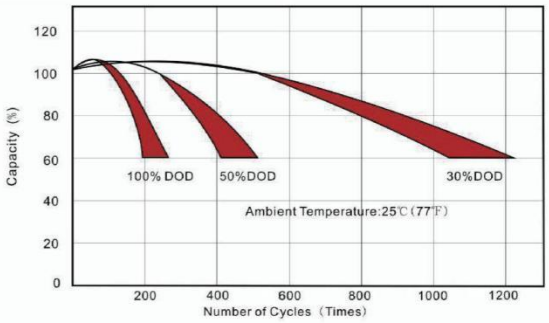
Battery Vlotage and Charge Time for Cycle Use



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	202.88	114.71	118.1	71.83	44.01	27.47	21.35	16.8	12.96	11.41	8	4.29
1.75V/Cell	204.56	130.5	119.1	72.44	44.39	27.7	21.54	16.94	13.07	11.51	8.12	4.35
1.70V/Cell	209.68	141.61	122.1	74.25	45.5	28.39	22.07	17.36	13.4	11.8	8.24	4.42
1.67V/Cell	214.8	149.92	125.1	76.06	46.61	29.09	22.61	17.78	13.72	12.08	8.36	4.48
1.60V/Cell	224.4	156.25	130.6	79.45	48.68	30.38	23.62	18.58	14.33	12.62	8.48	4.54
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	371.3	243.5	219.7	131.4	82.7	51.92	40.78	32.76	25.01	22.14	15.68	8.45
1.75V/Cell	374.3	259.3	221.5	132.6	83.5	52.35	41.14	33.03	25.22	22.33	15.92	8.57
1.70V/Cell	383.7	271.2	227.1	135.9	85.5	53.66	42.15	33.85	25.85	22.88	16.15	8.71
1.67V/Cell	393.1	277.5	232.7	139.2	87.6	54.98	43.19	34.67	26.49	23.44	16.39	8.83
1.60V/Cell	410.7	281.6	242.9	145.4	91.5	57.42	45.11	36.23	27.66	24.49	16.62	8.94