MinuteBank

VRLA Battery **MS7.2-12** 12V7.2AH

MS Series Battery

MS Series

Small-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

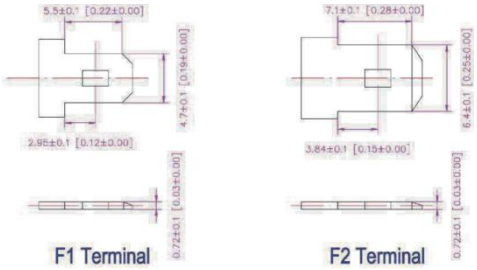
Application:

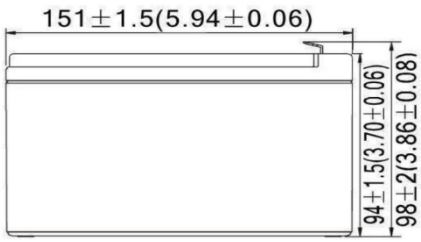
- Telecommunications
- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

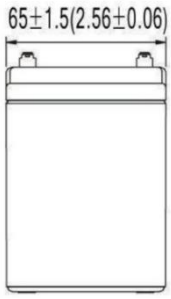
ISO9001 ISO14001 ISO45001

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







Specification:

Battery Model	MS 7.2-12 12V7.2AH			
Designed Floating Life	3～5 Years			
Capacity (25℃)	20HR(0.375A,10.5V)	10HR(0.680A,10.5V)	5HR(1.240A,10.5V)	1HR(3.800A,10.5V)
	7.50AH	6.80AH	6.20AH	3.80AH
Dimensions	Length	Width	Height	Total Height
	151 mm	65 mm	94 mm	98 mm
Approx. Weight	2.16Kg ±3%			
Internal Resistance	Full charged at 25℃ : ≤ 23.0 mΩ			
Self Discharge	2% of capacity declined per month at (25℃)			
max discharge current	35A			
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: 2.25A		13.5-13.8V (-20mV/℃)	

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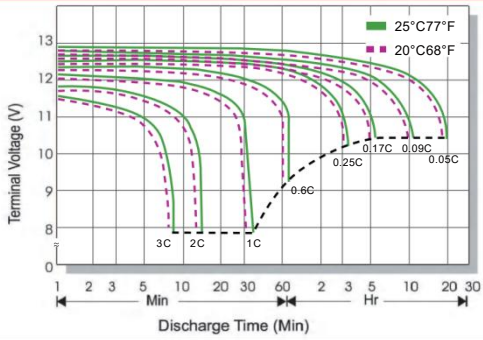
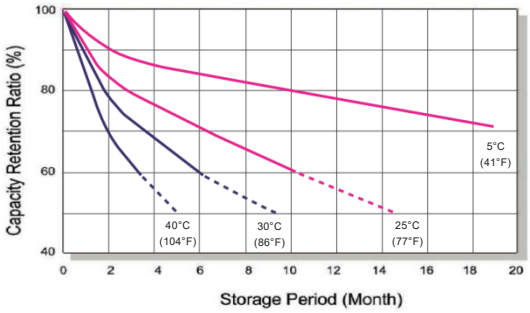
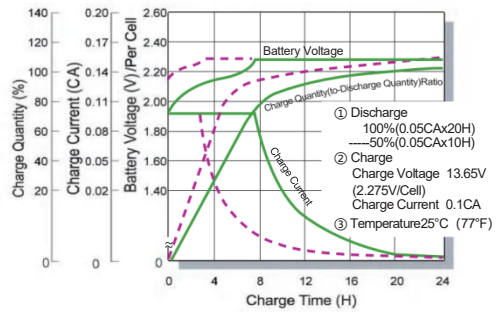
Terminal Voltage (V) and Discharge Time



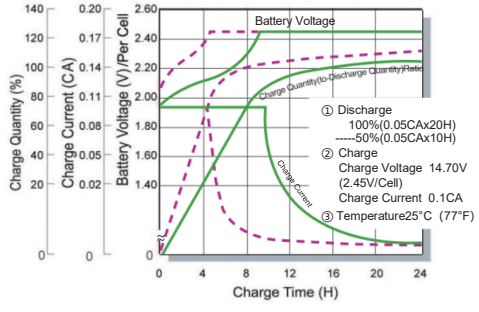
Capacity Retention Characteristic



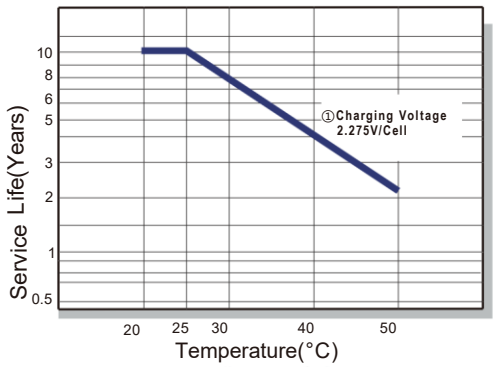
Battery Vlotage and Charge Time for Standby Use



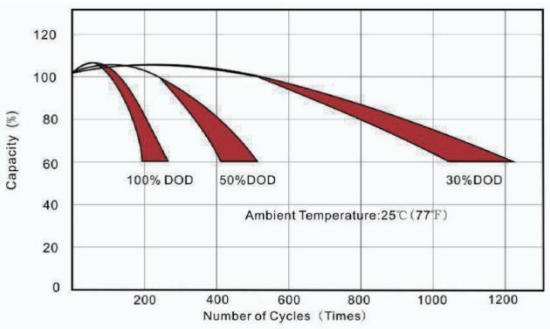
Battery Vlotage and Charge Time for Cycle Use



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	22.6	15.4	10.8	6.9	3.7	2.34	1.82	1.43	1.22	1.08	0.67	0.36
1.75V/Cell	23.0	15.7	11.0	7.0	3.8	2.39	1.85	1.46	1.24	1.09	0.68	0.37
1.70V/Cell	23.7	16.2	11.4	7.2	3.9	2.46	1.91	1.50	1.27	1. 13	0.70	0.38
1.67V/Cell	24.4	16.7	11.7	7.4	4. 1	2.53	1.97	1.55	1.31	1. 16	0.72	0.39
1.60V/Cell	25.0	17.2	12.0	7.6	4.2	2.60	2.02	1.59	1.34	1.20	0.74	0.40

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	41.3	28.3	20.1	12.6	7.0	4.43	3.48	2.78	2.35	2.09	1.31	0.72
1.75V/Cell	42.0	28.8	20.5	12.8	7.2	4.51	3.54	2.84	2.39	2.12	1.33	0.74
1.70V/Cell	43.3	29.7	21.1	13.2	7.4	4.65	3.64	2.92	2.45	2.20	1.37	0.76
1.67V/Cell	44.6	30.5	21.7	13.6	7.6	4.78	3.76	3.03	2.53	2.25	1.41	0.76
1.60V/Cell	45.8	31.4	22.3	13.9	7.8	4.92	3.86	3. 11	2.59	2.33	1.45	0.78