

MS Series SLA Battery

Small-size batteries

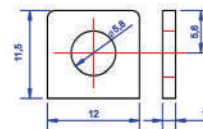
- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years

Application:

- Alarm System
- Cable Television
- Communication Equipment
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Power tools
- Control Equipment
- Toys

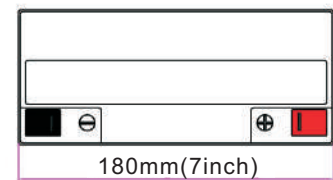
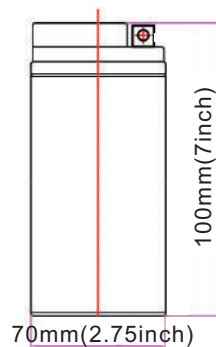
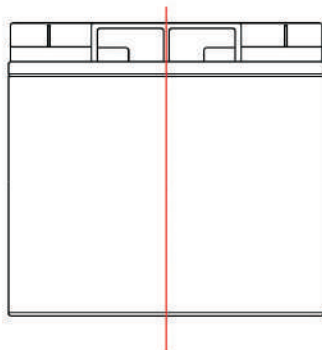
Construction:

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy
- Safety valve Rubber
- TerminalCopper
- SeparatorFiber glass
- ElectrolyteSulfuric acid



M5 Bolt & Nut

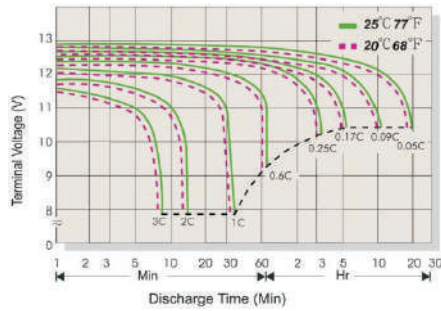
T1 Terminal



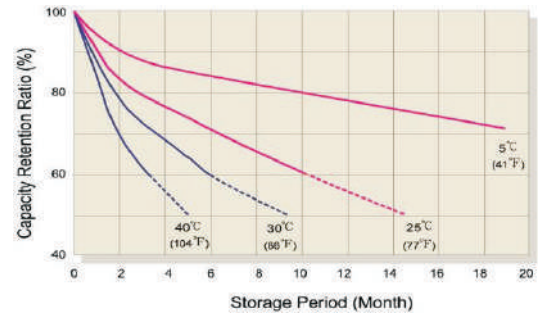
Speification:

Battery Model	12V24AH			
Designed Floating Life	3~5 Years			
Capacity (25℃)	1.2A	2.14A	3.84A	14.4A
	24AH	21AH	18.7AH	14.4AH
Dimensions	Length	Width	Height	Total Height
	181mm (7.12inch)	77mm (3.03inch)	160mm (6.30inch)	167mm (6.57inch)
Approx. Weight	7.9kg(17.4lbs)			
Internal Resistance	Full charged at 25℃: ≤12.0mΩ			
Self Discharge	3% of capacity declined per month at (25℃)			
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: 7.2A		13.5-13.8V (-20mV/℃)	

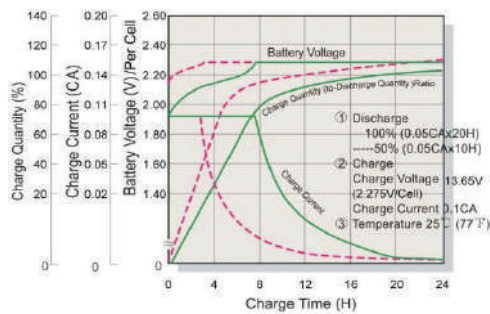
Terminal Voltage (V) and Discharge Time



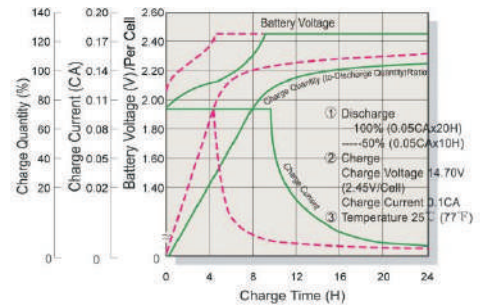
Capacity Retention Characteristic



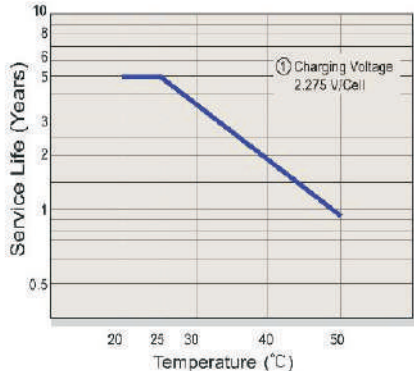
Battery Voltage and Charge Time for Standby Use



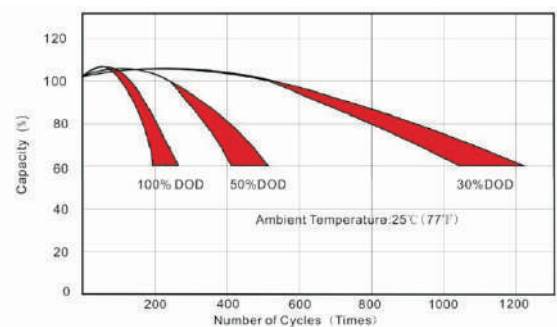
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25°C (77°F)

F.V/Time	5Min	10Min	15Min	20Min	30Min	1Hr	2Hr	3Hr	5Hr	10Hr
1.80VPC	86.62	58.04	48.01	39.66	24.63	15.83	9.14	6.15	4.27	2.42
1.75VPC	87.15	58.57	50.56	40.54	25.06	16.18	9.36	6.33	4.47	2.55
1.70VPC	87.41	58.83	50.83	40.80	25.48	16.44	9.62	6.51	4.60	2.62
1.65VPC	87.58	59.00	51.01	40.98	25.86	16.80	9.94	6.73	4.75	2.64
1.60VPC	87.77	59.19	51.18	41.15	26.41	17.17	10.16	6.83	4.84	2.72

Constant Power Discharge(CP,Unit:W) at 25°C (77°F)

F.V/Time	5Min	10Min	15Min	20Min	30Min	1Hr	2Hr	3Hr	5Hr	10Hr
1.80VPC	909.51	609.42	526.32	416.44	258.54	166.20	96.03	64.64	44.78	25.39
1.75VPC	915.05	614.96	530.93	425.67	263.16	169.90	98.24	66.48	46.96	26.78
1.70VPC	917.82	617.73	533.70	428.44	267.77	172.67	100.83	68.33	48.25	27.51
1.65VPC	919.67	619.58	535.55	430.29	272.39	176.36	104.34	70.64	49.86	27.70
1.60VPC	921.51	621.42	537.40	432.13	277.29	180.06	106.19	71.56	50.78	28.62