12V-7AH

-Small-size batteries

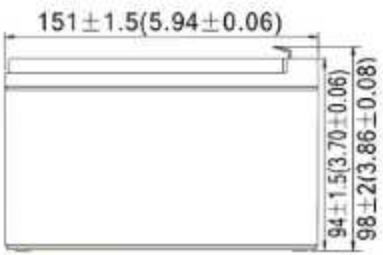
- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating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

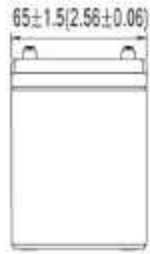
Application:

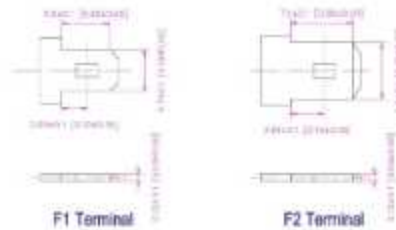
- Alarm System
- Cable Television
- Communication Equipment
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Power tools
- Control Equipment
- Toys

Construction:

- Component ___Raw material
- Positive _____Lead dioxide
- Negative _____Lead
- Container _____ABS
- Cover _____ABS
- Sealant _____Epoxy
- Safety valve ___ Rubber
- Terminal _____Copper
- Separator _____Fiber glass
- Electrolyte ___Sulfuric acid







Speification:

Battery Model	MS 7-12 12V7.0AH			
Designed Floating Life	3～5 Years			
Capacity (25℃)	20HR(0.35A,10.5V)	10HR(0.673A,10.5V)	5HR(1.26A,10.5V)	1HR(4.19A,10.5V)
	7.00AH	6.73AH	6.30AH	4.19AH
Dimensions	Length	Width	Height	Total Height
	151mm (5.94inch)	65mm (2.56inch)	94mm (3.70inch)	98mm (3.86inch)
Approx. Weight	2.10Kg (4.63 lbs) ±5%			
Internal Resistance	Full charged at 25℃ : ≤28 mΩ			
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: 2.10A		13.6-13.8V (-20mV/℃)	

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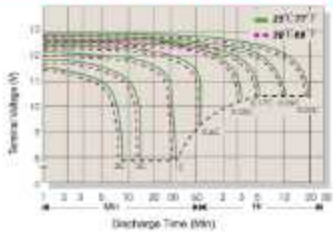
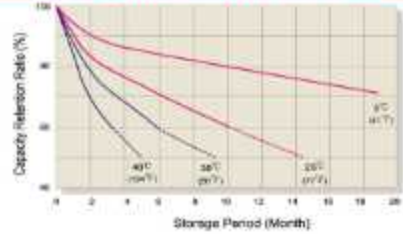
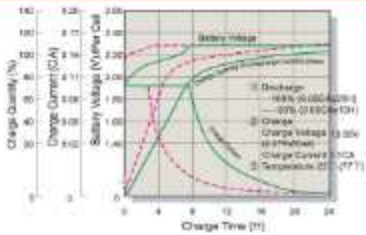
Terminal Voltage (V) and Discharge Time



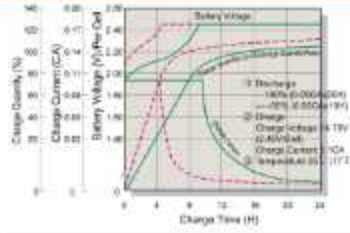
Capacity Retention Characteristic



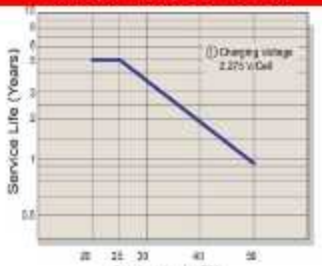
Battery Voltage and Charge Time for Standby Use



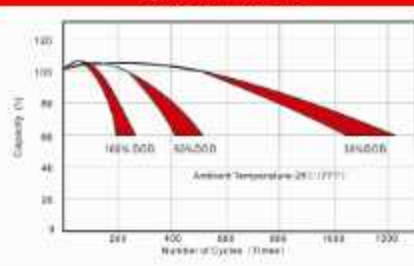
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25℃(77℉)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	19.31	14.26	10.34	6.96	4.04	2.31	1.77	1.413	1.213	0.989	0.649	0.337
1.80V/Cell	19.68	14.53	10.54	7.09	4.12	2.36	1.80	1.440	1.237	1.008	0.661	0.344
1.75V/Cell	20.04	14.81	10.74	7.23	4.19	2.40	1.84	1.467	1.260	1.027	0.673	0.350
1.70V/Cell	21.85	15.69	11.38	7.51	4.27	2.45	1.87	1.493	1.282	1.045	0.685	0.356
1.67V/Cell	24.05	17.03	12.35	7.93	4.31	2.47	1.89	1.509	1.296	1.056	0.693	0.360
1.60V/Cell	26.06	17.91	12.99	8.27	4.36	2.50	1.91	1.525	1.310	1.068	0.700	0.364
Constant Power Discharge (CP,Unit:W) at 25℃(77℉)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	37.65	27.81	20.16	13.57	7.88	4.51	3.45	2.76	2.37	1.93	1.26	0.66
1.80V/Cell	38.37	28.34	20.55	13.83	8.03	4.60	3.52	2.81	2.41	1.97	1.29	0.67
1.75V/Cell	39.09	28.87	20.94	14.09	8.18	4.69	3.58	2.86	2.46	2.00	1.31	0.68
1.70V/Cell	42.60	30.60	22.19	14.65	8.32	4.77	3.65	2.91	2.50	2.04	1.34	0.69
1.67V/Cell	46.90	33.20	24.08	15.47	8.41	4.82	3.68	2.94	2.53	2.06	1.35	0.70
1.60V/Cell	50.81	34.93	25.33	16.13	8.50	4.87	3.72	2.97	2.55	2.08	1.37	0.71