

MC9-12(12V 9Ah,

Rechargeable VRLA Battery



FEATURES

- AGM technology for efficient gas recombination and lower I.F
- Individually tank-formed plates optimize uniformity of cell
- High performance alloy to secure corrosion-proof feature
- Long float and cycle life
- Maintenance-free operation
- Sealed construction, no electrolyte leakage or spill
- Computer-aided design and manufacture ensure high quality

SPECIFICATION

Nominal Voltage	12V
Nominal Capacity	9 Ah @ 20Hr-rate
Approx. Weight	2.55KG(5.61Lbs)
Internal Resistance	19mΩ (Fully Charged) @25°C
Self-Discharge	Average 3% of capacity decline per month
Nominal Operating Temp.	25±3°C(77±5°F)
Operating Temp. Range	Discharge:-20~50°C(-4~122°F) Charge:-15~40°C(5~104°F) Storage:-20°C~40°C(-4~104°F)
Max. Discharge Current	135A(5sec.) 40°C (104°F) 102% 25°C (77°F) 100% 0°C (32°F) 85% -15°C(5°F) 65%
Capacity Affected by Temp.	
Container Material	ABS(UL94-HB,UL94-V0 is optional)

APPLICATION

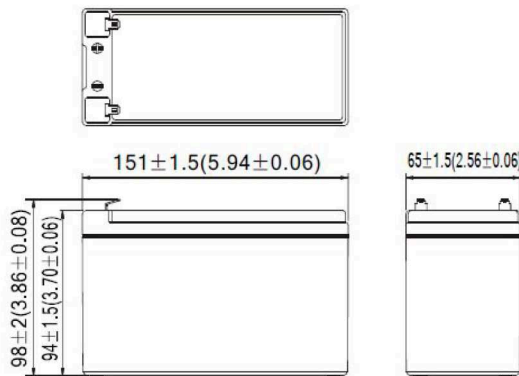
- All Purpose
- UPS
- Signal Light
- Alarm and Security System
- DC Power Supply
- Auto Control System

APPLICABLE STANDARDS

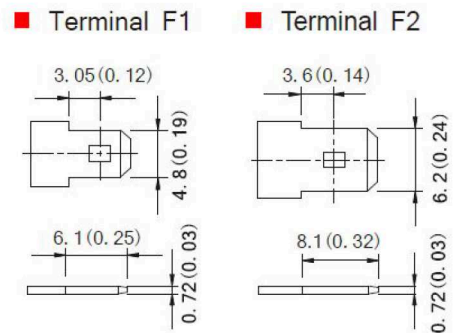


OUTER DIMENSION

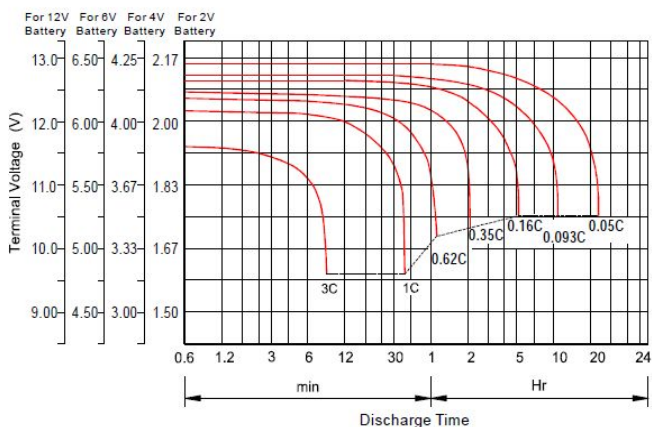
- Length**
151mm(5.94inches)
- Width**
65mm(2.56inches)
- Height**
94mm(3.70inches)
- Total height**
98mm(3.86inches)



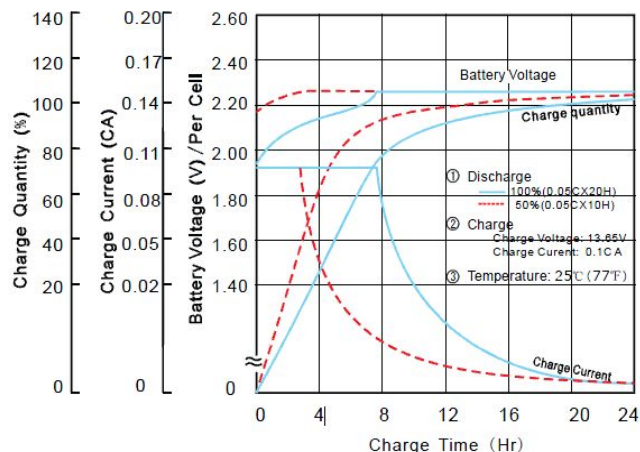
Terminal Type



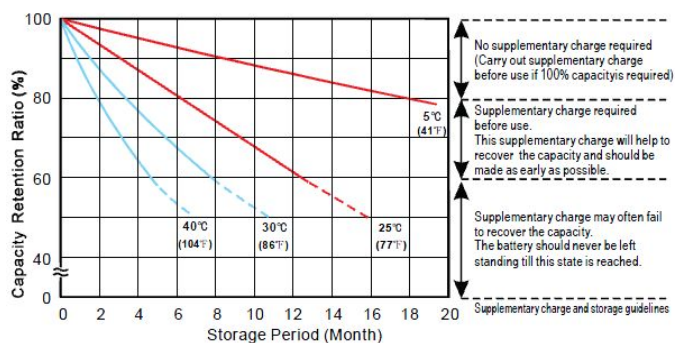
Discharge Characteristics@25°C



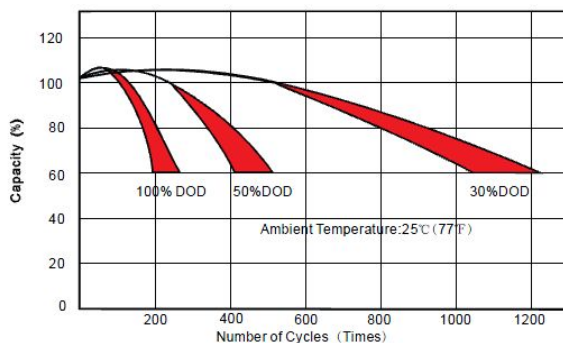
Charge Characteristics(Standby Use)



Capacity Retention Characteristics



Cycle Service life



Charging Procedure

Application	Constant Voltage Charge(V/Cell)			Max. Charge Current
	Temp.	Set Point	Allowable Range	
Cycle Use	25°C	2.425	2.40-2.45	0.3C
Standby Use	25°C	2.275	2.25-2.30	

Discharge Current VS Discharge Voltage

Final Discharge Voltage	1.75	1.7	1.6	1.3
Discharge Current(A)	0.2C>A	0.2C< A<0.5C	0.5C< A<1C	A>1C

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

F.V/Time	5Min	10Min	15Min	30Min	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V/Cell	33.9	22.3	16.9	10.4	5.78	3.18	2.34	1.88	1.59	1.05	0.86	0.47
1.65V/Cell	32.5	21.9	16.2	10.1	5.62	3.12	2.31	1.85	1.58	1.05	0.85	0.46
1.70V/Cell	31.0	21.3	15.5	9.8	5.43	3.05	2.27	1.82	1.56	1.04	0.84	0.45
1.75V/Cell	28.2	19.9	14.4	9.51	5.26	2.99	2.23	1.73	1.56	1.02	0.84	0.45
1.80V/Cell	27.1	19.1	13.5	9.26	5.06	2.92	2.20	1.70	1.48	1.00	0.81	0.44
1.85V/Cell	25.1	18.0	12.5	9.00	4.88	2.84	2.08	1.67	1.41	0.97	0.80	0.43

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

F.V/Time	5Min	10Min	15Min	30Min	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60 Volt	352	240	179	113	63.3	35.3	26.3	21.3	18.3	12.1	9.96	5.45
1.65 Volt	344	240	177	112	63.2	35.0	26.2	21.2	18.2	12.1	9.94	5.41
1.70 Volt	333	239	173	111	62.7	34.8	26.0	21.2	18.2	12.1	9.93	5.35
1.75 Volt	311	226	165	109	60.9	34.7	26.0	20.3	18.1	12.0	9.90	5.31
1.80 Volt	305	220	155	107	58.8	34.1	25.9	20.0	17.4	11.8	9.70	5.30
1.85 Volt	285	208	146	105	57.0	33.6	24.7	19.9	16.8	11.6	9.65	5.20

