

Powered by



RG1290FP ▶ 12V 9Ah

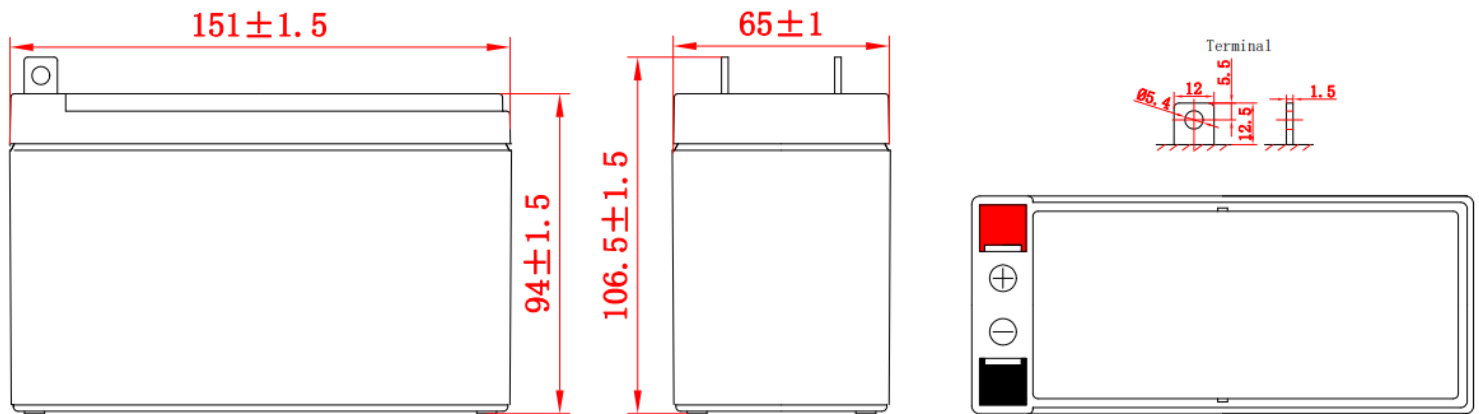
Raion Power batteries use high purity raw materials and low density electrolyte to make the batteries have good cycle performance and low self-discharge rate. It is suitable for UPS, telecom system, electric power system



► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	9Ah @ 20hr-rate to 1.6V per cell @25°C (77°F)
Weight	Approx. 2.55 kg(5.61 lbs) - Tolerance±5%
Maximum Discharge Current	135A(5sec)
Internal Resistance	Approx. 17 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	2.7A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	This battery can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	FP terminal to accept M5 nut & bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

► Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm	106.5±1.5	94±1.5	151±1.5	65±1.0

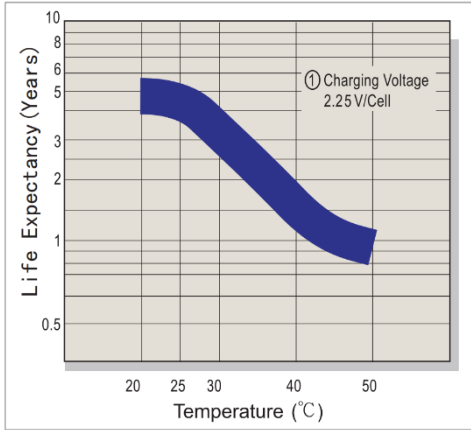


Constant Current Discharge Characteristics Unit: A (25°C,77°F)								
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	30.3	16.3	9.36	5.36	2.34	1.573	0.839	0.450
1.67V	29.7	15.9	9.27	5.30	2.32	1.561	0.836	0.448
1.7V	29.3	15.6	9.21	5.25	2.31	1.552	0.833	0.447
1.75V	27.9	14.9	9.02	5.12	2.27	1.526	0.824	0.443
1.8V	25.1	13.7	8.66	4.88	2.18	1.479	0.806	0.434
1.85V	19.4	11.6	7.99	4.46	1.99	1.375	0.761	0.416

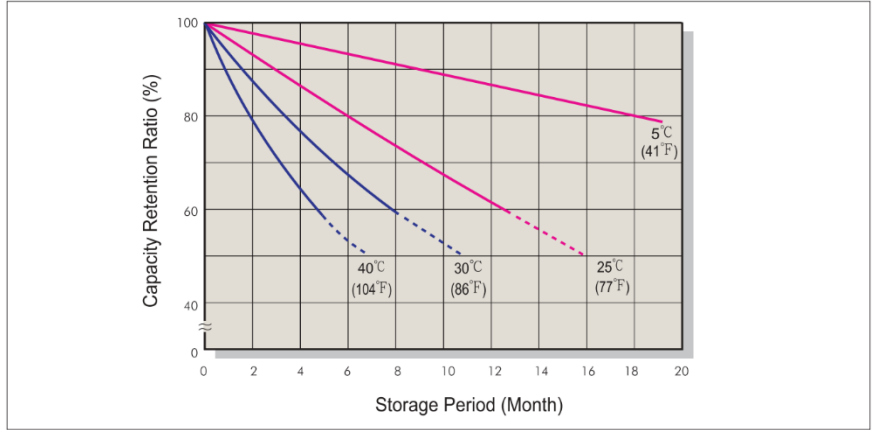
Constant Power Discharge Characteristics Unit: W (25°C,77°F)								
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	52.9	31.6	18.09	10.19	4.60	3.009	1.651	0.891
1.67V	50.5	30.1	17.95	10.09	4.56	2.997	1.643	0.889
1.7V	48.9	29.0	17.85	10.03	4.54	2.984	1.637	0.887
1.75V	44.7	26.8	17.54	9.87	4.46	2.937	1.616	0.880
1.8V	38.5	23.9	16.86	9.54	4.30	2.838	1.582	0.862
1.85V	30.0	20.1	15.55	8.86	3.96	2.683	1.505	0.830

Ratings presented herein are subject to revision without notice.

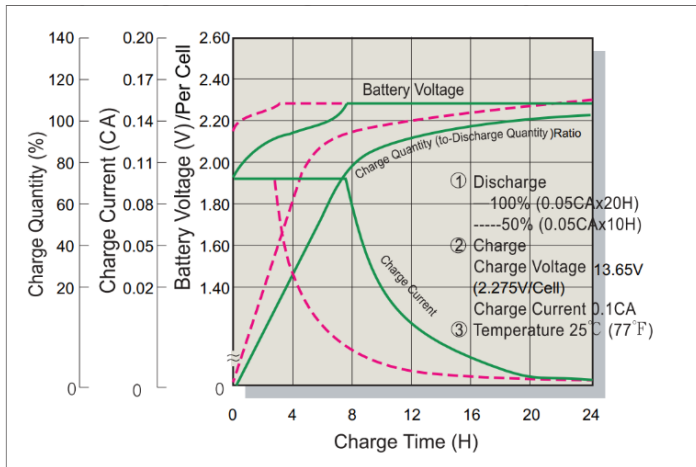
Trickle(or Float)Design Life



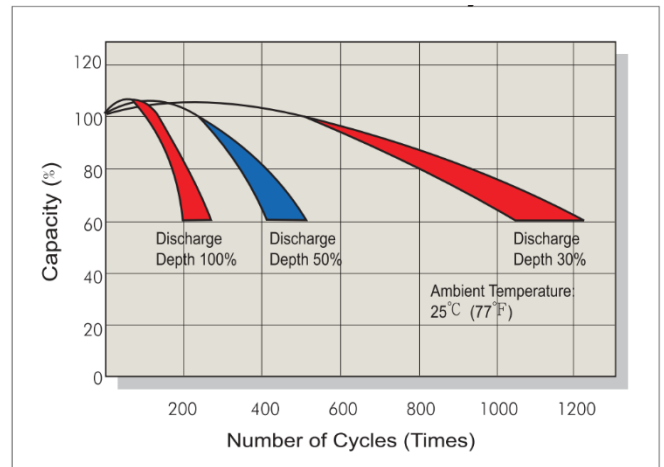
Capacity Retention Characteristic



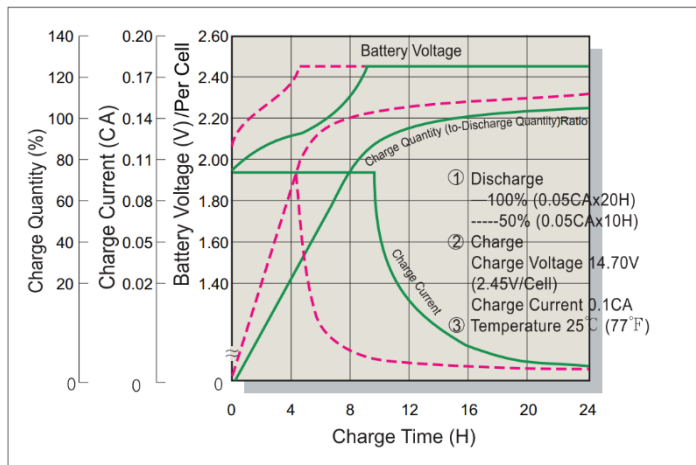
Battery Voltage and Charge Time for Standby Use



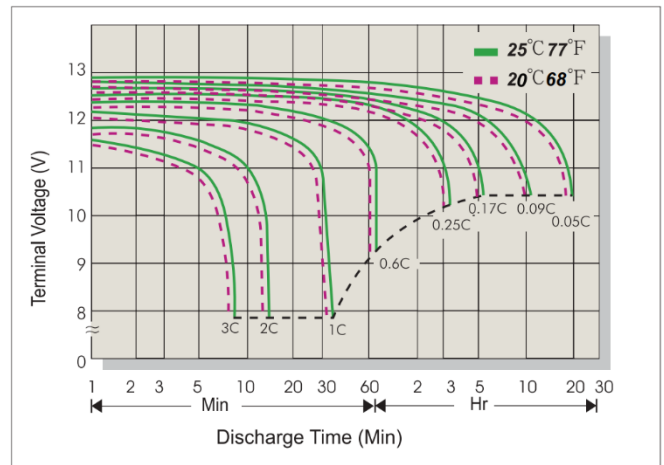
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25 °C (77 °F)	2.45	2.40~2.50	0.3C
Standby	25 °C (77 °F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%