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RG121000I4 12V 100Ah

RG121000I4 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service . This battery is rechargeable, highly efficient, leak proof and maintenance free.



► Specification

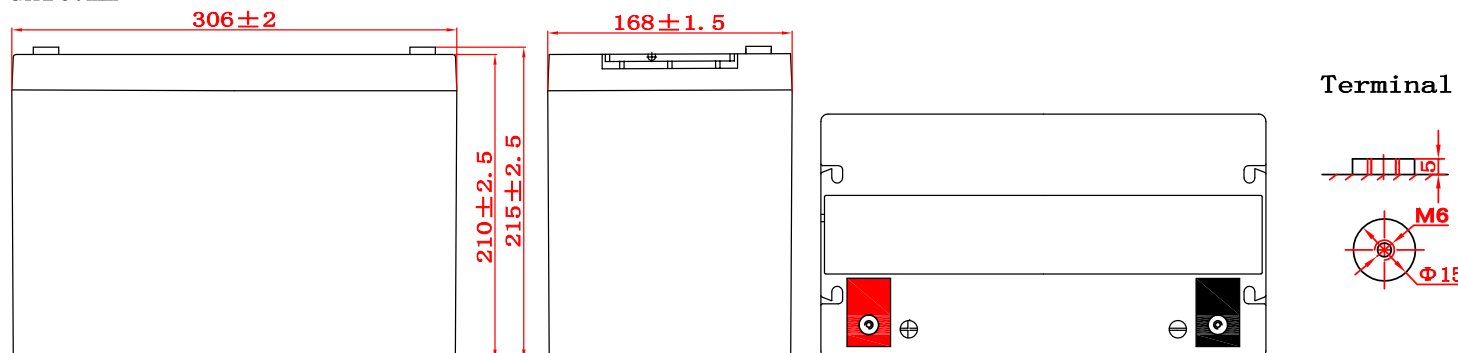
Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah @ 10hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 26.0 kg(57.2 lbs)
Maximum Discharge Current	900A(5sec)
Internal Resistance	Approx. 5.5 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -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	22.5 A
Equalization and Cycle Service	14.4 to 14.8 VDC/unit Average at 25°C (77°F)
Self Discharge	Raion batteries 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	(I4) Thread lead alloy recessed terminal to accept M6
Container Material	bolt ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

► Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
215±2.5	210±2.5	306±2	168±1.5

unit:mm



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

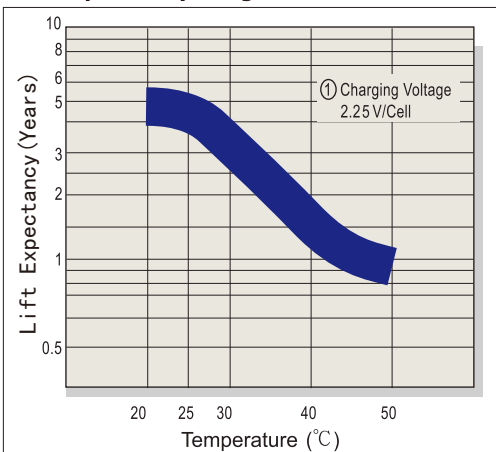
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	319	170	94.3	54.1	24.3	16.71	9.38	4.82
1.67V	302	167	92.5	53.4	24.0	16.47	9.26	4.80
1.7V	284	163	90.2	52.4	23.5	16.11	9.13	4.77
1.75V	262	156	87.3	50.9	22.7	15.59	9.00	4.73
1.8V	237	145	83.5	48.7	21.5	14.93	8.85	4.65
1.85V	205	127	78.3	45.1	19.6	13.76	8.46	4.50

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

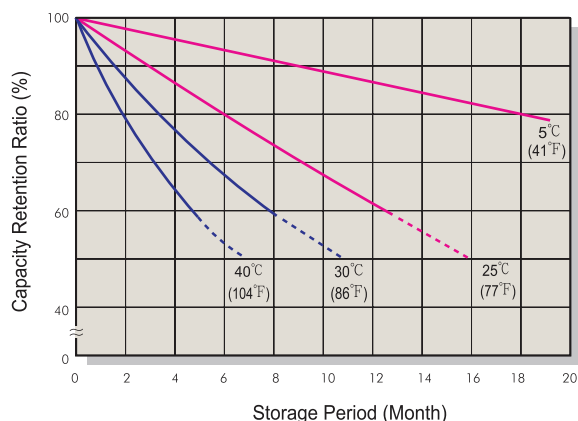
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	507	323	182.3	102.9	47.9	32.6	18.30	9.62
1.67V	482	306	179.0	101.6	47.1	32.1	18.09	9.58
1.7V	448	285	175.0	100.1	46.0	31.5	17.85	9.50
1.75V	404	261	169.8	97.9	44.5	30.6	17.56	9.38
1.8V	346	231	162.6	94.6	42.3	29.4	17.20	9.20
1.85V	271	194	152.4	89.7	39.1	27.4	16.73	8.95

Ratings presented herein are subject to revision without notice.

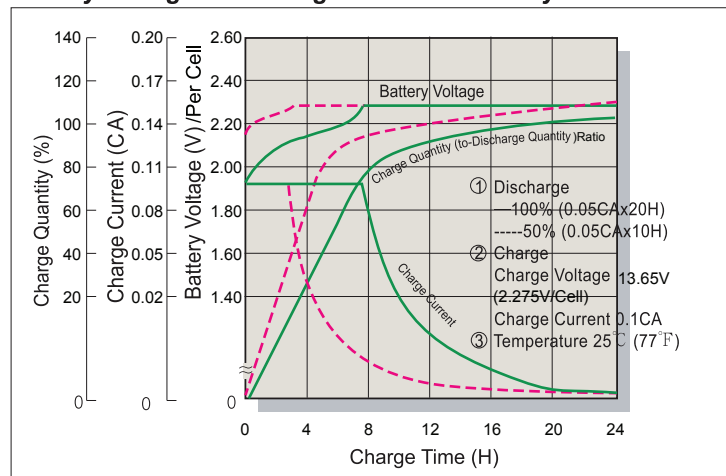
Trickle(or Float)Design Life



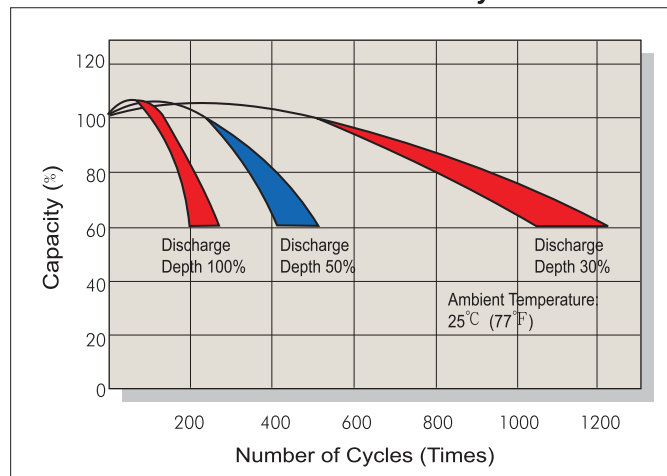
Capacity Retention Characteristic



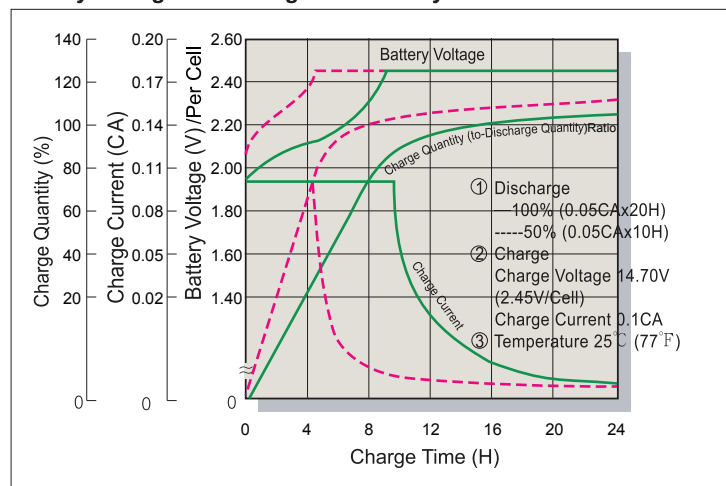
Battery Voltage and Charge Time for Standby Use



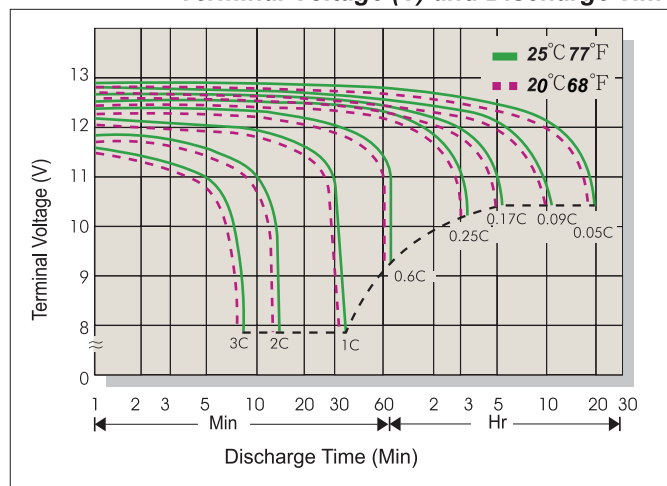
Cycle Service Life



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	0.25C
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 (10HR)

Temperature	Dependency of Capacity (10HR)
40 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

Self-discharge Characteristics

Charge Voltage(V/Cell)	Charge Voltage(V/Cell)
3 Months	91%
6 Months	82%
12 Months	64%