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RG12120T2 12V 12Ah

RG12120T2 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.

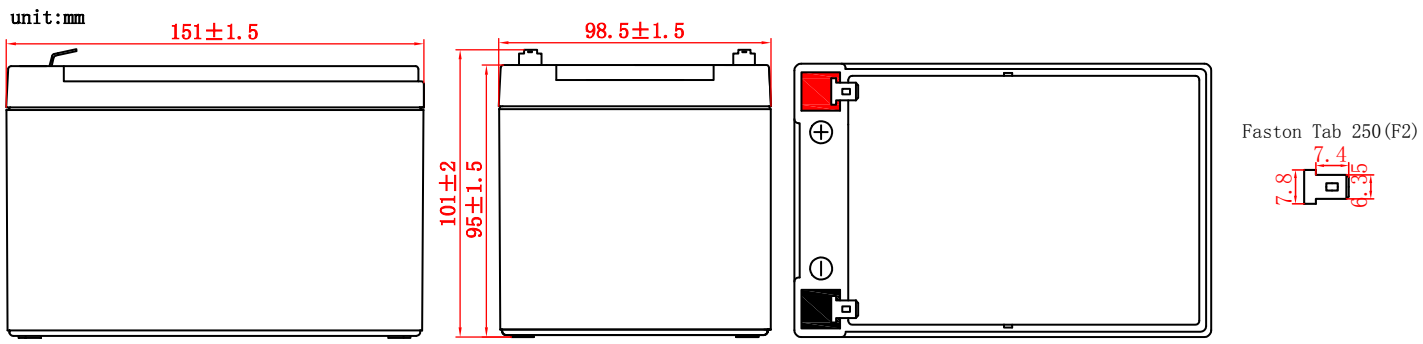
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	12Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 3.8 kg(8.36 lbs)
Maximum Discharge Current	180A(5sec)
Internal Resistance	Approx. 12 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	3.6A
Equalization and Cycle Service	14.4 to 15.0 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	F2-Faston Tab250
Container Material	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)
101±2	95±1.5	151±1.5	98.5±1.5



Constant Current Discharge Characteristics Unit:A (25°C, 77°F)								
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	43.7	24.6	14.10	7.80	3.36	2.26	1.264	0.678
1.67V	42.9	24.1	14.03	7.73	3.35	2.25	1.261	0.676
1.7V	41.7	23.4	13.85	7.62	3.33	2.22	1.255	0.672
1.75V	39.4	22.3	13.53	7.42	3.29	2.18	1.242	0.665
1.8V	35.4	20.6	12.97	7.05	3.17	2.10	1.206	0.650
1.85V	27.5	17.4	12.00	6.47	2.94	1.96	1.144	0.625

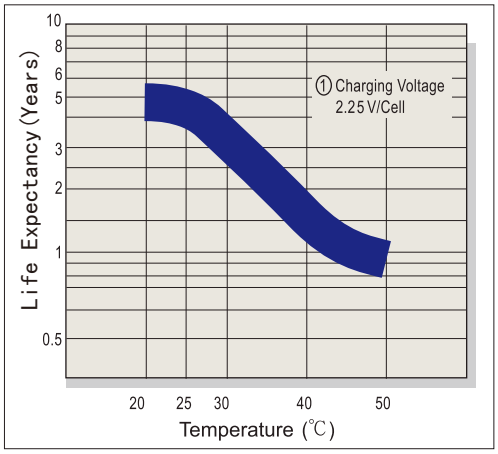
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)								
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	74.1	47.2	27.25	14.82	6.62	4.41	2.49	1.345
1.67V	70.6	44.7	27.13	14.72	6.60	4.40	2.47	1.344
1.7V	66.0	41.8	26.88	14.54	6.55	4.36	2.44	1.337
1.75V	59.6	38.2	26.33	14.27	6.47	4.27	2.42	1.320
1.8V	51.1	33.8	25.26	13.80	6.25	4.13	2.36	1.292
1.85V	39.8	28.4	23.36	12.86	5.85	3.89	2.26	1.247

Ratings presented herein are subject to revision without notice.

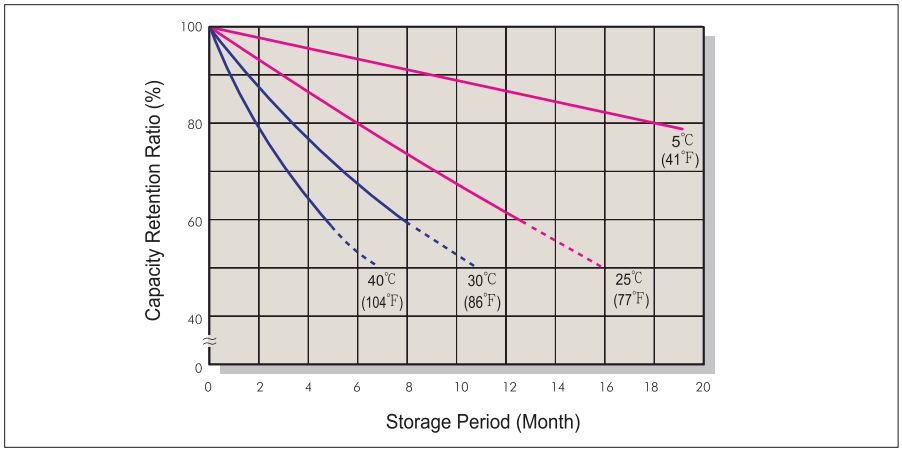
RG12120T2

12V 12Ah

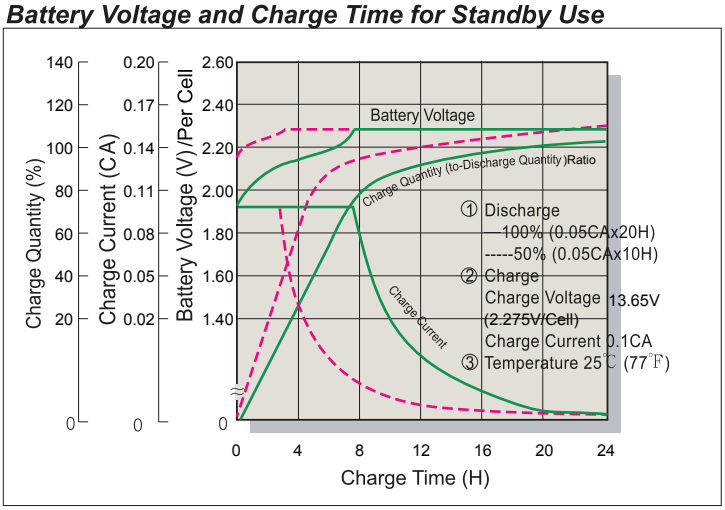
Trickle(or Float)Design Life



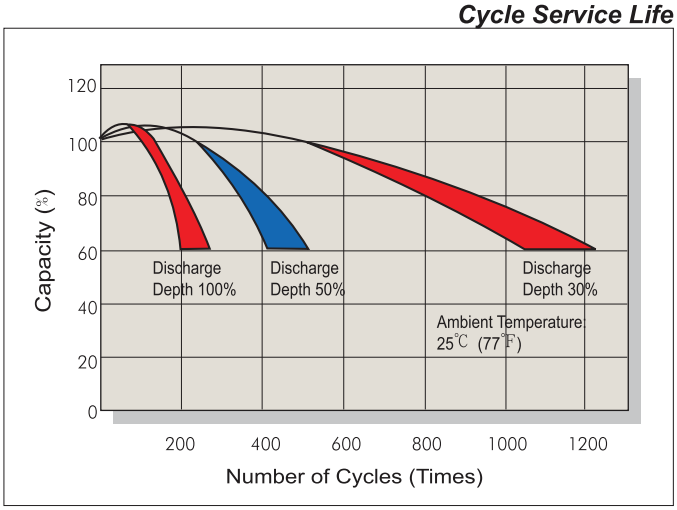
Capacity Retention Characteristic



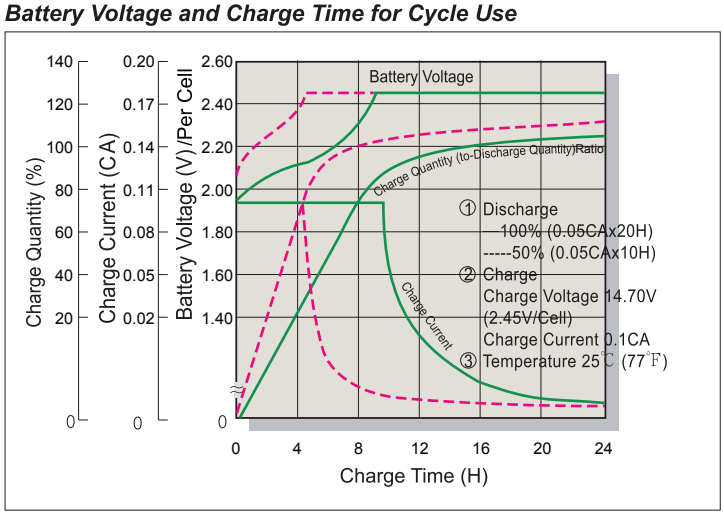
Battery Voltage and Charge Time for Standby Use



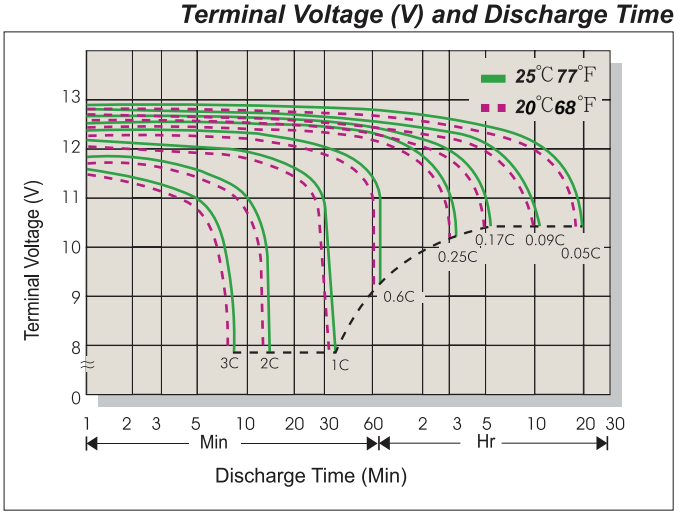
Cycle Service Life



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℃(77℉)	2.45	2.40~2.50	0.3C
Standby	25℃(77℉)	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 ℃	102%
25 ℃	100%
0 ℃	85%
-15 ℃	65%

Self-discharge Characteristics

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