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RG12750I4 12V 75Ah

RG12750RT 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

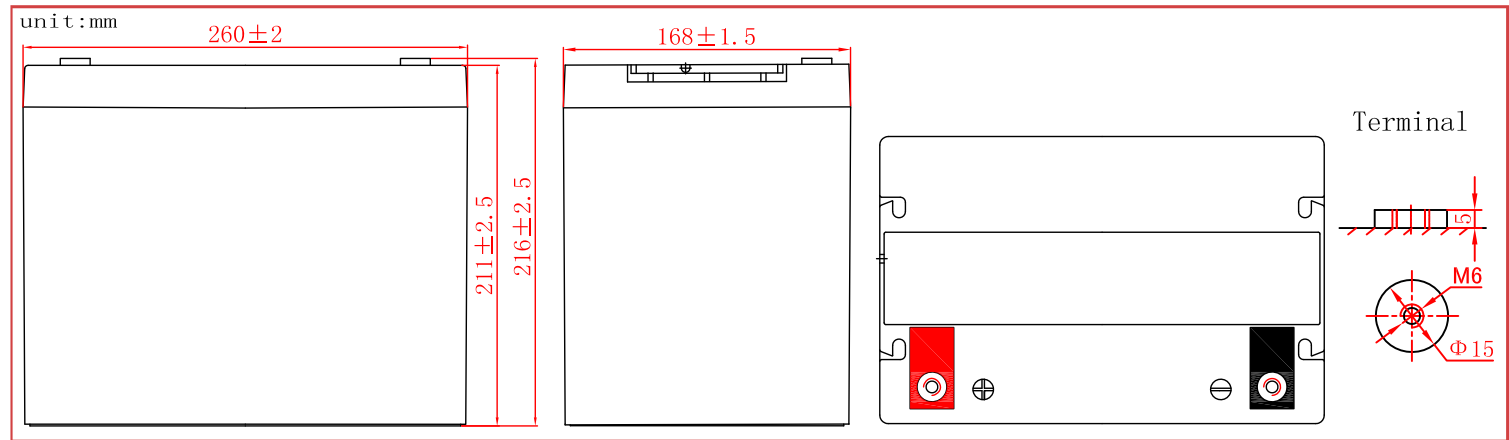
Cells Per Unit	6
Voltage Per Unit	12
Capacity	75Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 21.5 kg(47.3 lbs)
Maximum Discharge Current	750A(5sec)
Internal Resistance	Approx. 7 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (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	19A
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	(RT) Thread lead alloy recessed terminal to accept M6 bolt
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)
216±2.5	211±2.5	260±2	168±1.5



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

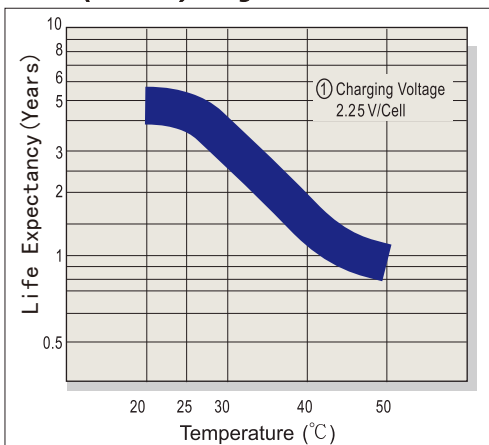
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	79.2	58.2	46.0	20.2	13.60	9.27	7.69	4.10
1.67V	77.7	57.2	45.4	20.0	13.52	9.25	7.67	4.09
1.7V	76.7	56.5	44.8	19.8	13.45	9.22	7.66	4.07
1.75V	74.0	55.0	43.4	19.5	13.24	9.14	7.62	4.04
1.8V	70.5	53.0	41.5	18.8	12.87	8.98	7.50	3.98
1.85V	66.0	50.4	38.5	17.2	11.97	8.57	7.21	3.84

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

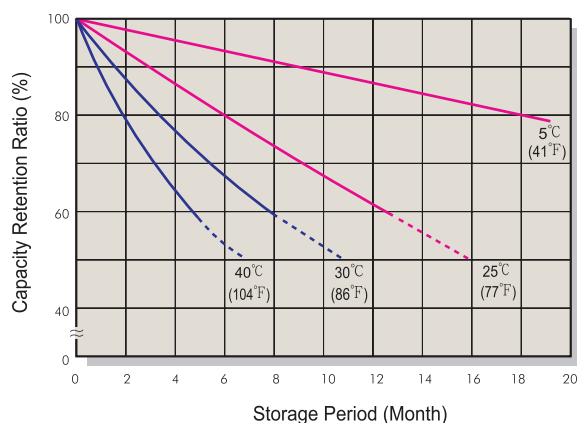
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	130.7	97.6	78.3	37.8	26.55	18.11	15.13	8.07
1.67V	127.2	94.9	77.3	37.4	26.48	18.02	15.10	8.03
1.7V	123.4	92.9	76.6	37.1	26.39	17.98	15.06	8.00
1.75V	116.5	88.3	74.7	36.4	26.06	17.84	14.93	7.93
1.8V	107.9	82.4	72.8	35.2	25.35	17.52	14.70	7.83
1.85V	96.5	74.2	68.6	32.6	23.82	16.92	14.25	7.60

Ratings presented herein are subject to revision without notice.

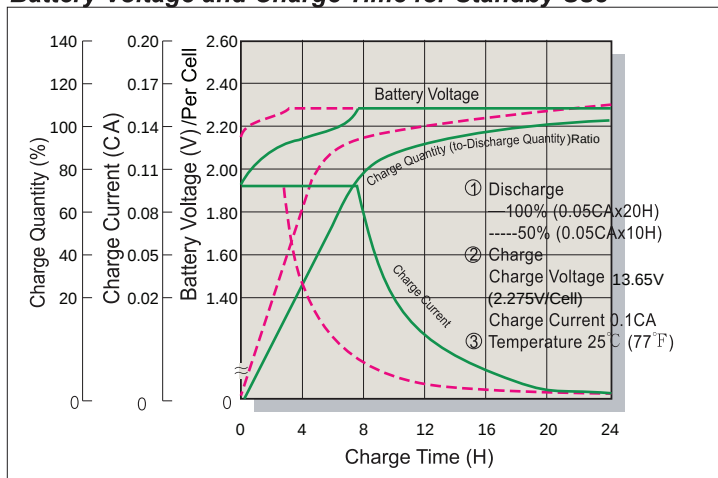
Trickle(or Float)Design Life



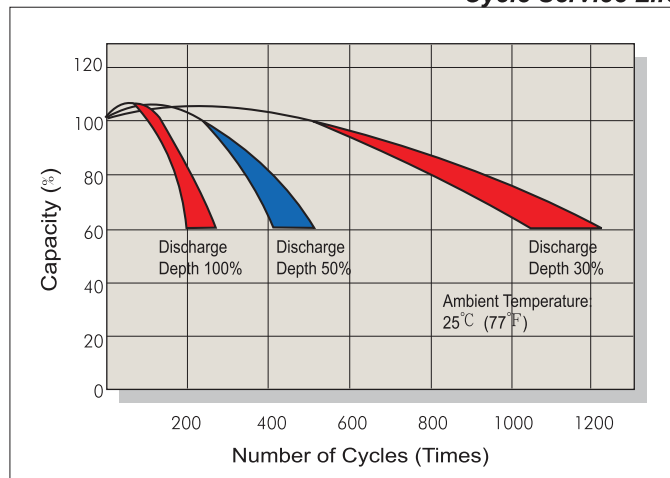
Capacity Retention Characteristic



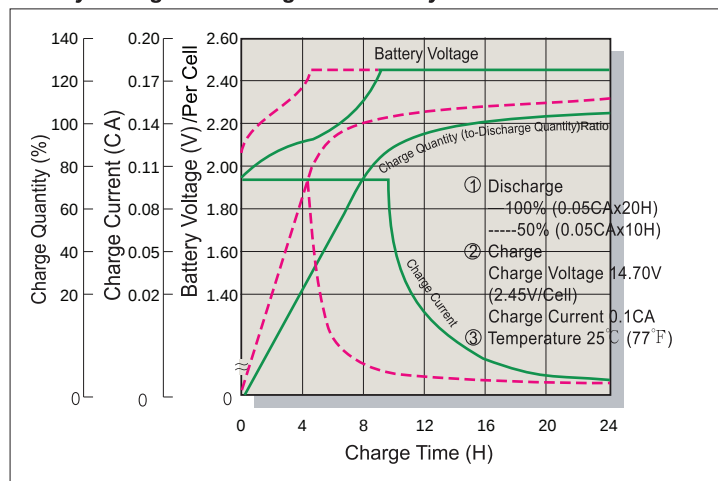
Battery Voltage and Charge Time for Standby Use



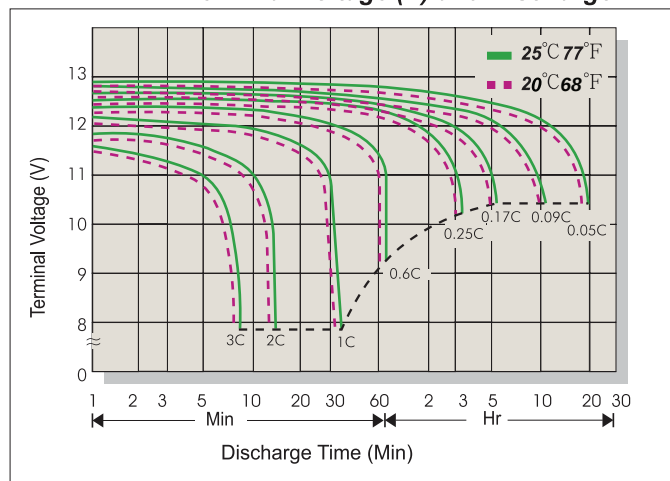
Cycle Service Life



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

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