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RG12550I4 12V 55Ah

RG12550I4 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

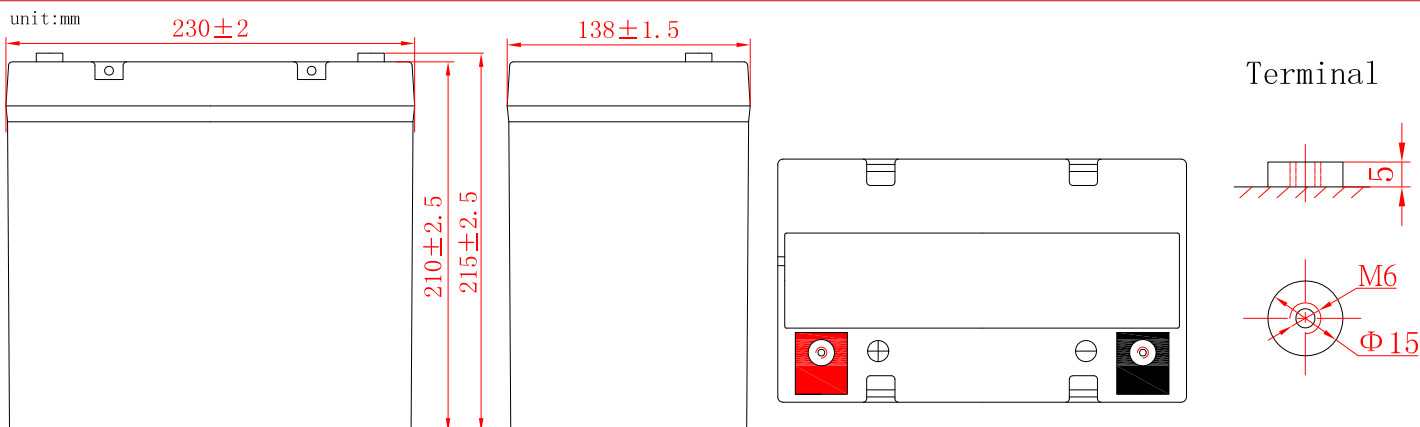
Cells Per Unit	6
Voltage Per Unit	12
Capacity	55Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 16.7 kg(36.74 lbs)
Maximum Discharge Current	550A(5sec)
Internal Resistance	Approx. 6.5 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage:-15°C~40°C (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	16.5A
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	(I4) 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)
215±2.5	210±2.5	230±2	138±1.5



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

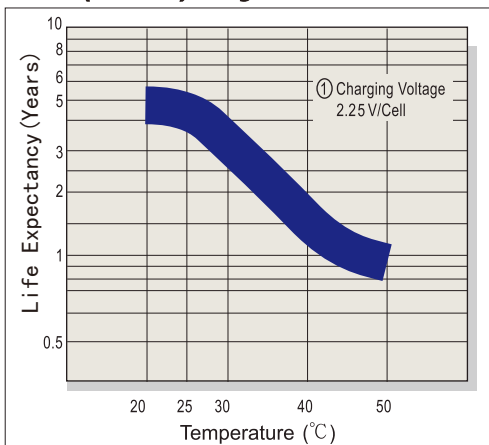
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	126.4	95.2	58.7	35.18	14.51	9.86	5.639	3.007
1.67V	122.8	92.8	57.7	34.69	14.38	9.81	5.630	2.999
1.7V	120.6	91.1	56.9	34.29	14.28	9.75	5.621	2.989
1.75V	113.7	86.1	54.9	33.19	14.01	9.60	5.590	2.963
1.8V	103.9	80.2	52.4	31.78	13.51	9.33	5.501	2.918
1.85V	90.1	70.5	49.0	29.47	12.41	8.67	5.286	2.820

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

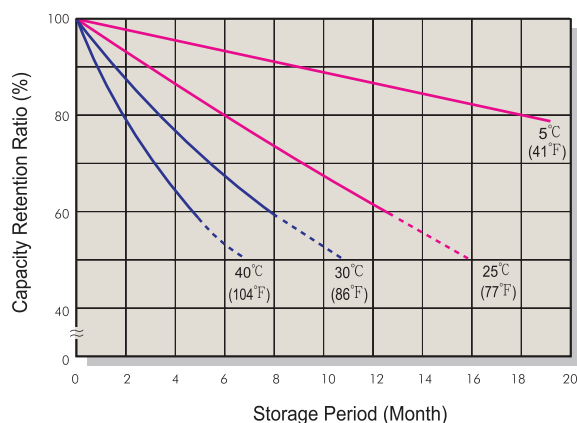
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	234.1	188.7	111.2	66.88	28.61	19.25	11.098	5.966
1.67V	222.1	178.9	109.3	66.07	28.32	19.20	11.056	5.949
1.7V	212.7	171.5	108.1	65.57	28.11	19.13	11.035	5.936
1.75V	192.5	155.7	104.7	64.25	27.58	18.89	10.971	5.890
1.8V	168.7	137.3	99.9	62.00	26.60	18.38	10.823	5.804
1.85V	138.1	113.7	93.5	58.57	24.71	17.27	10.455	5.609

Ratings presented herein are subject to revision without notice.

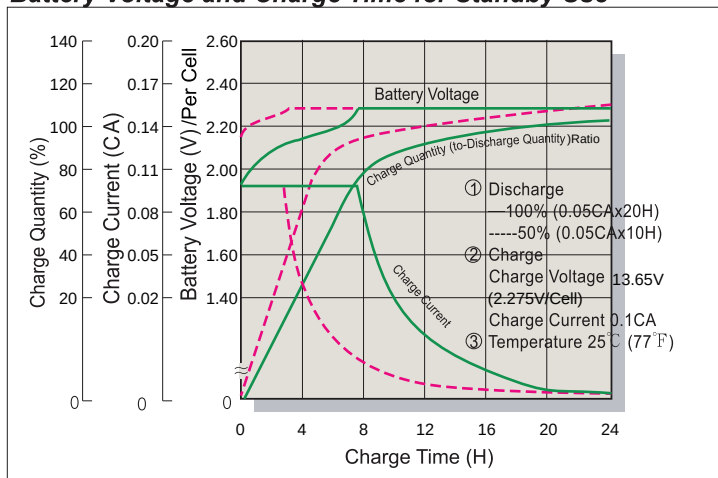
Trickle(or Float)Design Life



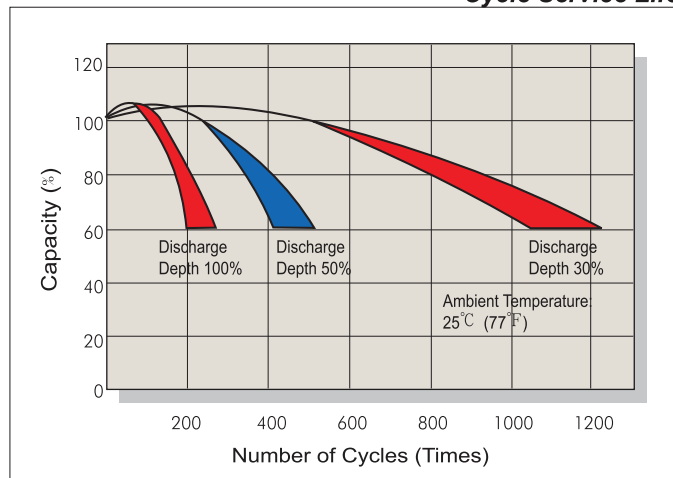
Capacity Retention Characteristic



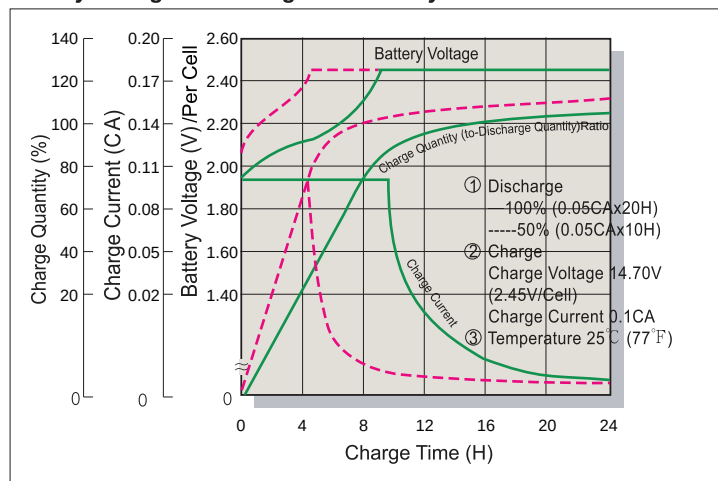
Battery Voltage and Charge Time for Standby Use



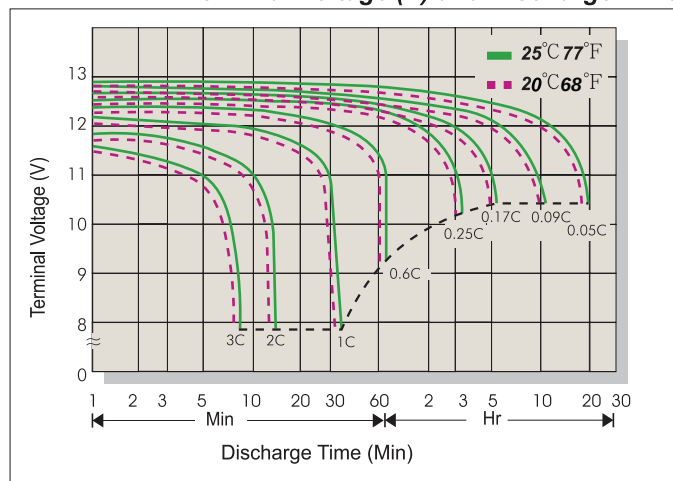
Cycle Service Life



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%