

Powered by



RG0685T1 6V 8.5Ah

This battery uses 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

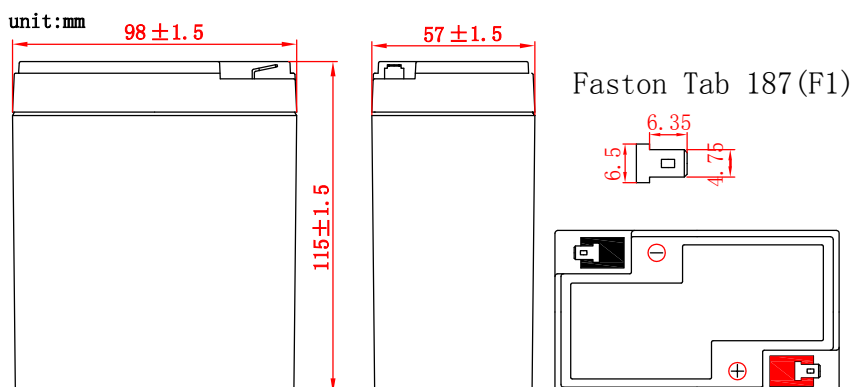
Cells Per Unit	3
Voltage Per Unit	6
Capacity	8.5Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 1.50 kg(3.3 lbs)
Maximum Discharge Current	127.5A(5sec)
Internal Resistance	Approx. 13 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	6.75 to 6.9VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	2.55A
Equalization and Cycle Service	7.2to 7.5VDC/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	F1-Faston Tab187
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)
115±1.5	115±1.5	98±1.5	57±1.5



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

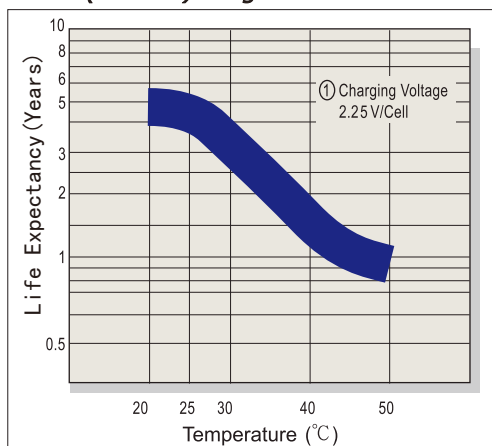
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	29.2	17.2	9.9	5.65	2.29	1.56	0.884	0.474
1.67V	28.6	16.7	9.8	5.58	2.28	1.55	0.880	0.472
1.7V	28.2	16.4	9.7	5.54	2.26	1.54	0.877	0.471
1.75V	26.9	15.7	9.5	5.40	2.23	1.51	0.869	0.467
1.8V	24.2	14.5	9.1	5.15	2.15	1.47	0.851	0.458
1.85V	18.7	12.2	8.4	4.71	1.96	1.37	0.803	0.439

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

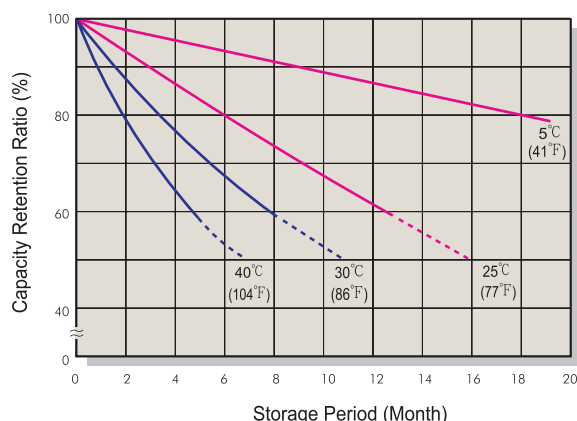
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	50.4	30.1	19.1	10.73	4.52	2.98	1.740	0.939
1.67V	48.2	28.7	18.9	10.63	4.48	2.97	1.730	0.936
1.7V	46.6	27.7	18.8	10.57	4.45	2.96	1.724	0.935
1.75V	42.6	25.6	18.5	10.40	4.38	2.91	1.704	0.927
1.8V	36.7	22.8	17.8	10.07	4.23	2.82	1.670	0.910
1.85V	28.6	19.1	16.4	9.35	3.89	2.67	1.588	0.876

Ratings presented herein are subject to revision without notice.

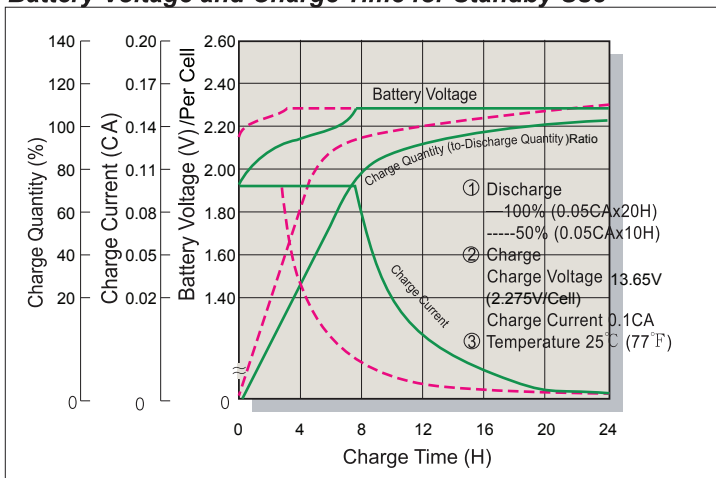
Trickle(or Float)Design Life



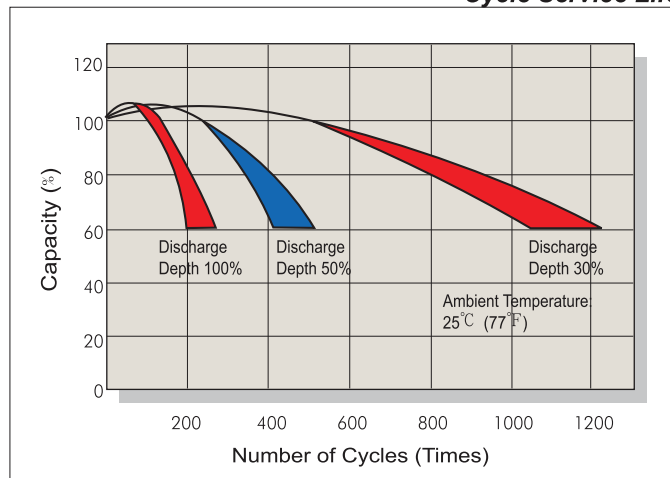
Capacity Retention Characteristic



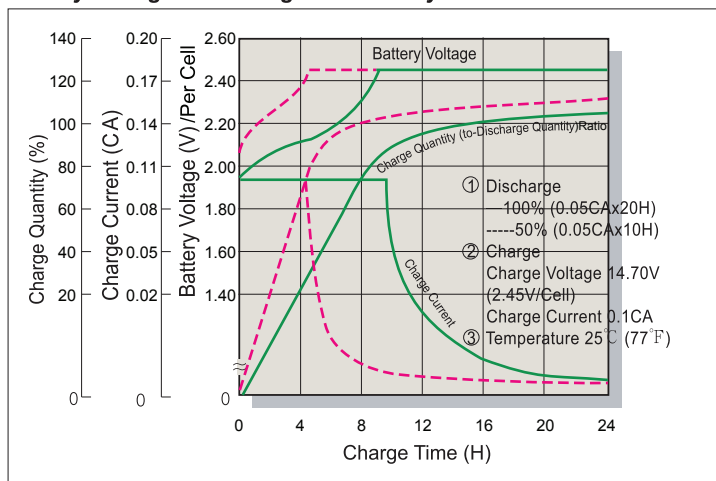
Battery Voltage and Charge Time for Standby Use



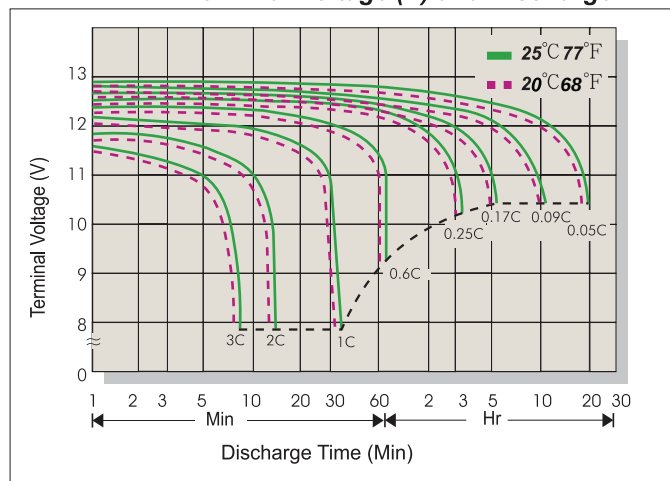
Cycle Service Life



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%