

Powered by



RG0645T1 6V 4.5Ah

RG0645T1 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.



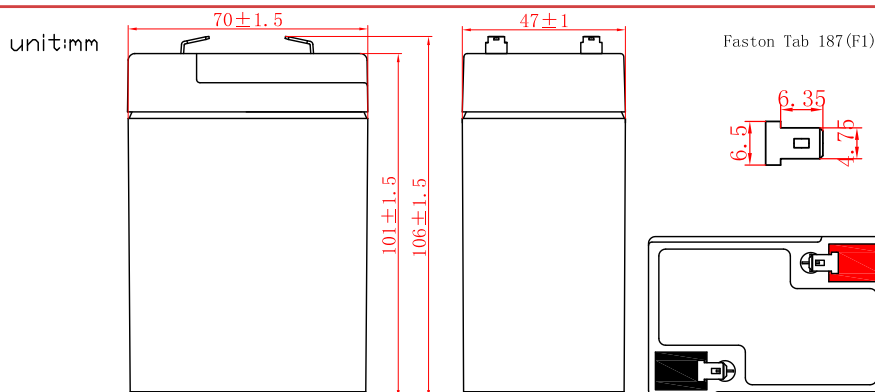
► Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	4.5Ah @ 20hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 0.7 kg(1.54 lbs)
Maximum Discharge Current	63A(5sec)
Internal Resistance	Approx. 20 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 6.9 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	1.2A
Equalization and Cycle Service	7.2 to 7.5 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	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)
106±1.5	101±1.5	70±1.5	47±1



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

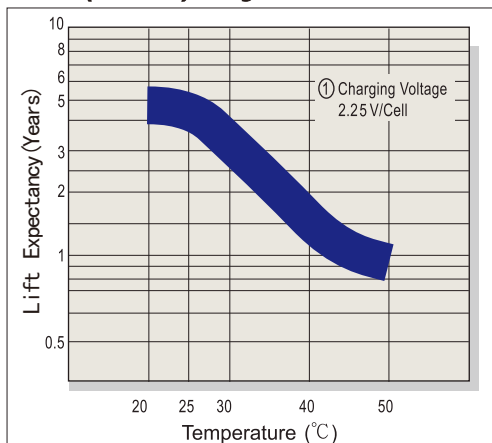
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	12.7	7.5	4.31	2.47	1.07	0.724	0.386	0.207
1.67V	12.5	7.3	4.26	2.44	1.07	0.718	0.384	0.206
1.7V	12.3	7.2	4.25	2.42	1.06	0.715	0.384	0.206
1.75V	11.7	6.9	4.15	2.36	1.04	0.703	0.379	0.204
1.8V	10.6	6.3	3.99	2.25	1.01	0.681	0.371	0.200
1.85V	8.2	5.3	3.69	2.06	0.92	0.635	0.351	0.192

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

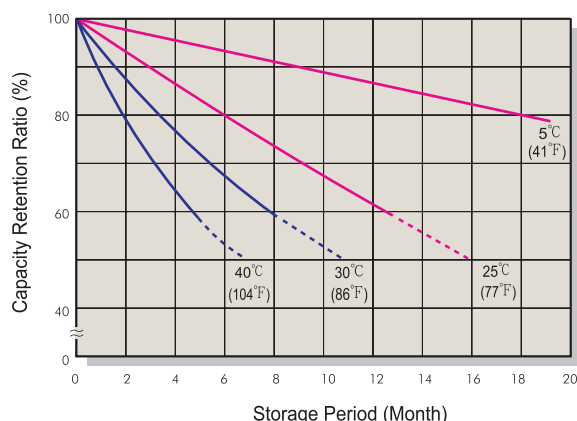
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	24.0	14.3	8.32	4.69	2.12	1.385	0.760	0.410
1.67V	22.9	13.6	8.25	4.64	2.10	1.379	0.755	0.409
1.7V	22.2	13.2	8.23	4.62	2.09	1.375	0.755	0.409
1.75V	20.3	12.2	8.08	4.55	2.05	1.353	0.743	0.405
1.8V	17.5	10.8	7.77	4.40	1.98	1.307	0.728	0.397
1.85V	13.6	9.1	7.18	4.09	1.83	1.239	0.694	0.383

Ratings presented herein are subject to revision without notice.

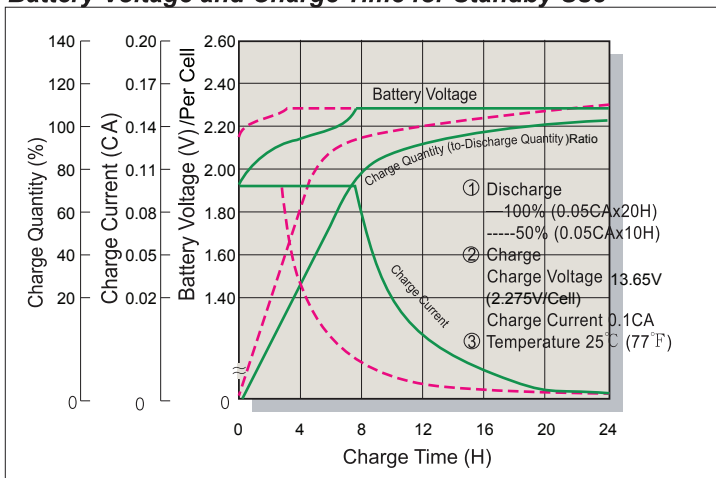
Trickle(or Float)Design Life



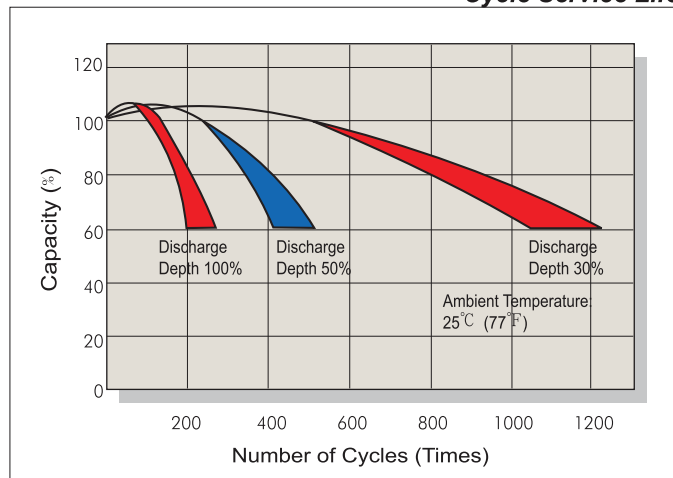
Capacity Retention Characteristic



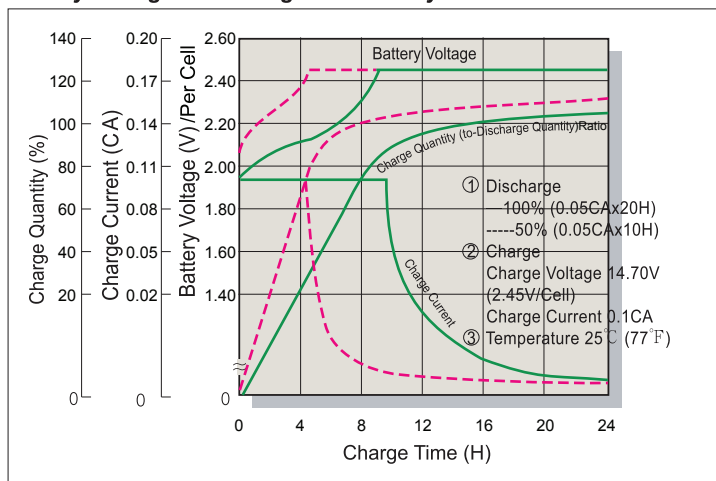
Battery Voltage and Charge Time for Standby Use



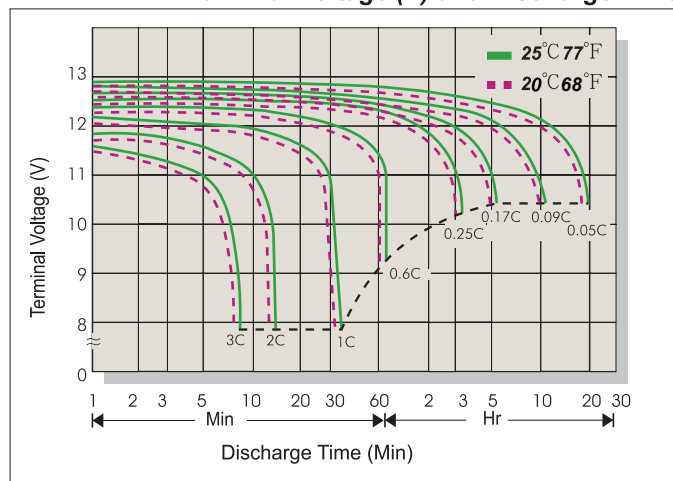
Cycle Service Life



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%