

Powered by



RG0445T1 (4V 4.5Ah)

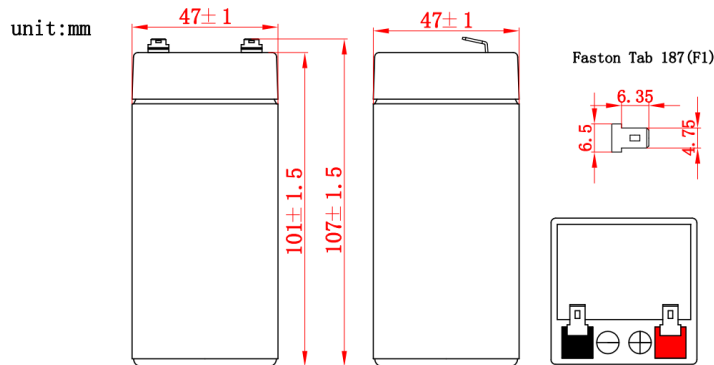
The battery is rechargeable, highly efficient, leak proof and maintenance free.



Specification

Cells Per Unit	2
Voltage Per Unit	4
Capacity	4.5Ah @ 20hr-rate to 1.80V per cell @25°C (77°F)
Weight	Approx. 0.51kg (Tolerance ±5.0%)
Maximum Discharge Current	67.5A (5sec)
Internal Resistance	Approx. 12mΩ
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	4.5 to 4.6 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	1.35A
Equalization and Cycle Service	4.8 to 5.0 VDC/unit Average at 25°C (77°F)
Self Discharge	Batteries can be stored for over 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 :	Length (L)	Width (W)	Container Height (H)	Overall Height (H)
Unit: mm	47±1.0	47±1.0	101±1.5	107±1.5



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

F.V/Time	5MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	14.4	8.4	4.85	2.78	1.21	0.815	0.435	0.233
1.67V	14.1	8.3	4.82	2.75	1.21	0.812	0.435	0.233
1.70V	13.9	8.1	4.78	2.73	1.20	0.806	0.432	0.232
1.75V	13.2	7.7	4.68	2.66	1.18	0.792	0.428	0.230
1.80V	11.9	7.1	4.49	2.53	1.13	0.767	0.418	0.225
1.85V	9.2	6.0	4.15	2.32	1.03	0.714	0.395	0.216

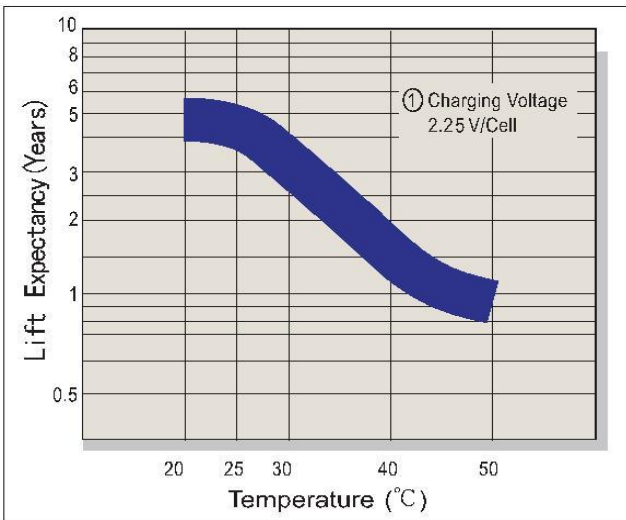
Constant Power Discharge Characteristics Unit: W(25°C,77°F)

F.V/Time	5MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	24.8	14.8	9.36	5.27	2.38	1.559	0.856	0.462
1.67V	23.7	14.1	9.34	5.25	2.37	1.559	0.855	0.462
1.70V	22.9	13.6	9.27	5.21	2.35	1.550	0.849	0.460
1.75V	21.0	12.6	9.11	5.12	2.31	1.524	0.839	0.457
1.80V	18.1	11.2	8.74	4.95	2.23	1.472	0.820	0.447
1.85V	14.1	9.4	8.07	4.60	2.05	1.393	0.781	0.431

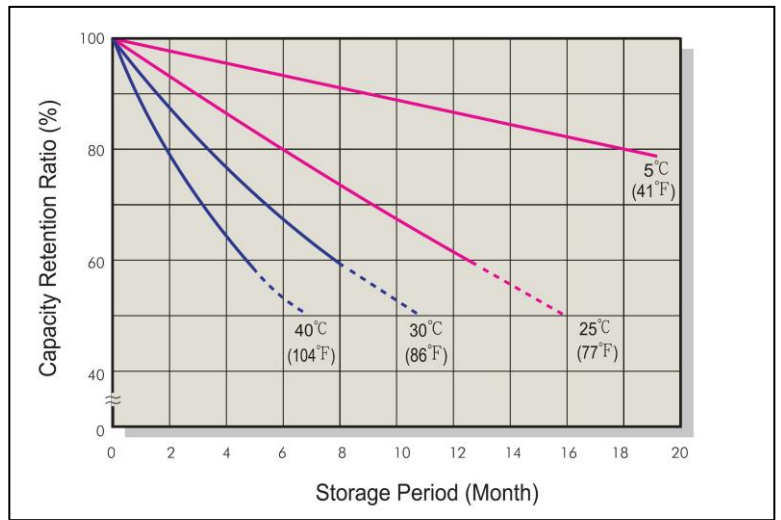
Ratings presented herein are subject to revision without notice.

RG0445T1

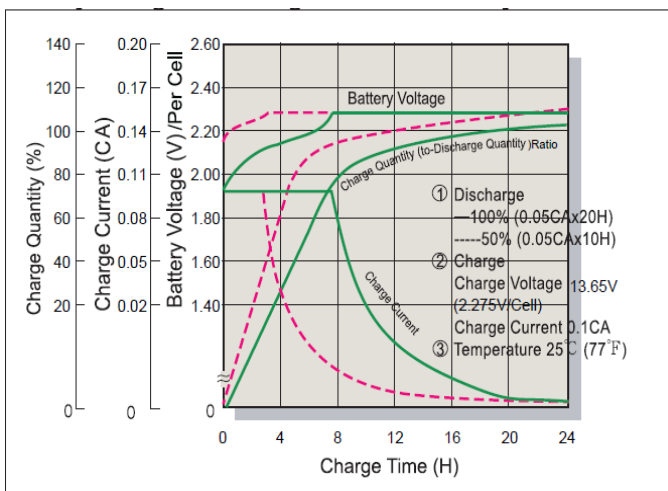
Trickle (or Float) Design Life



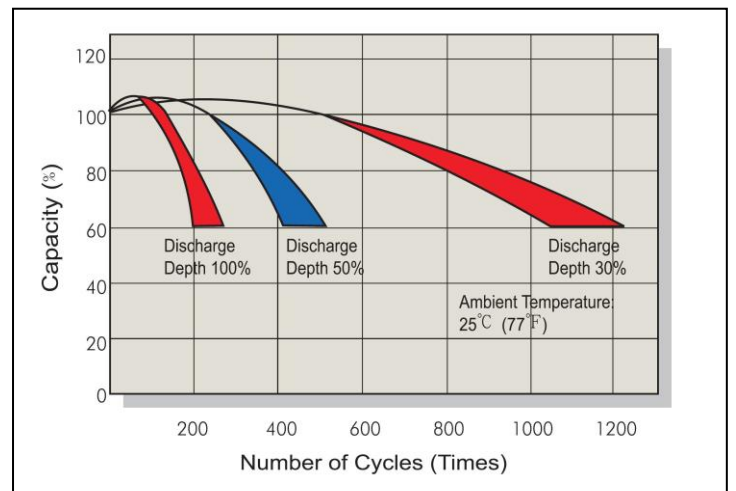
Capacity Retention Characteristic



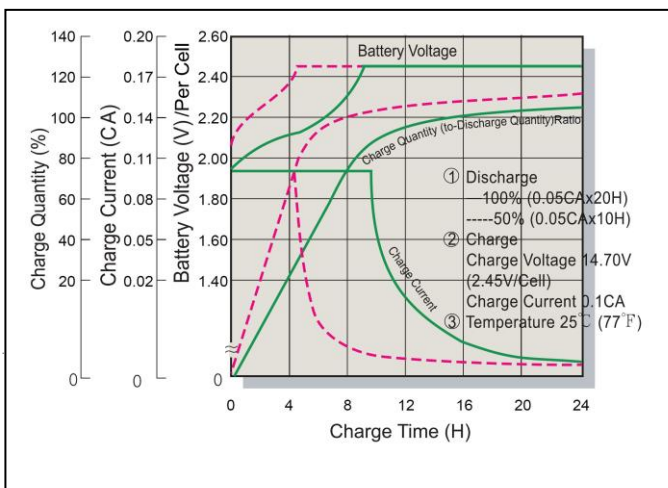
Battery Voltage and Charge Time for Standby Use



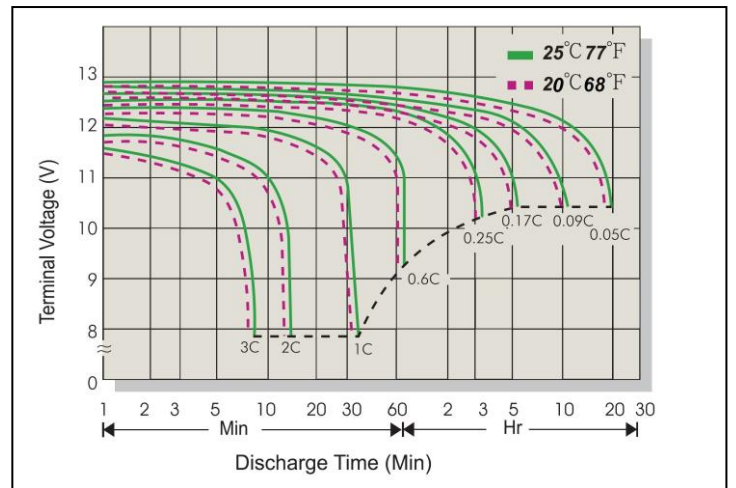
Cycle Service Life



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	2.450	2.40~2.50	0.3C
Standby	25°C	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	0.2C~0.5C	0.5C~1.0C	>1.0C

Effect of temperature on capacity

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%