

Powered by



RG12100T2 (12V 10Ah)

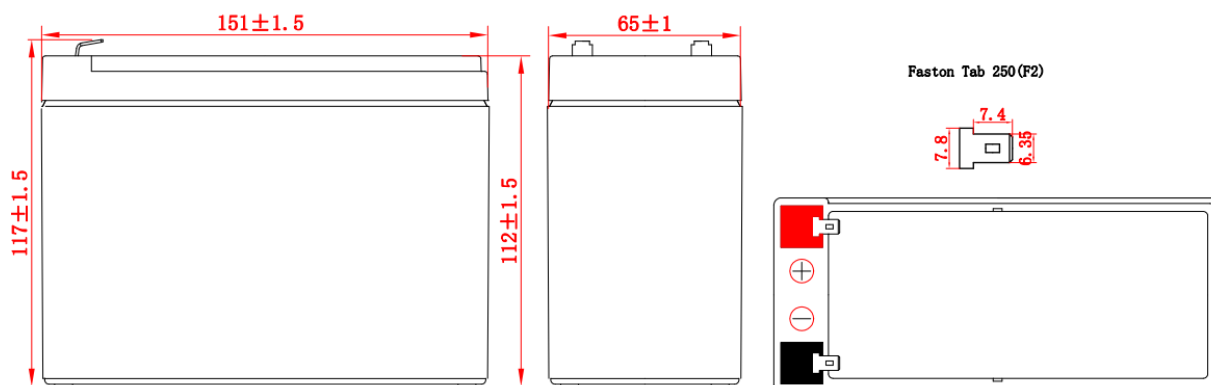
The battery is rechargeable, highly efficient, leak proof and maintenance free.

► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	10Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 2.95kg (Tolerance ±5.0%)
Maximum Discharge Current	150A (5sec)
Internal Resistance	Approx. 21mΩ
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	3A
Equalization and Cycle Service	14.4 to 15.0 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	F2-Faston Tab 250
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	151±1.5	65±1.0	112±1.5	117±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	31.3	18.4	10.6	6.05	2.46	1.67	0.947	0.508
1.67V	30.7	17.9	10.5	5.98	2.44	1.66	0.944	0.506
1.70V	30.2	17.6	10.4	5.92	2.42	1.65	0.939	0.504
1.75V	28.8	16.8	10.2	5.78	2.38	1.62	0.930	0.500
1.80V	25.9	15.5	9.8	5.51	2.30	1.57	0.910	0.490
1.85V	20.1	13.1	9.0	5.04	2.09	1.46	0.860	0.470

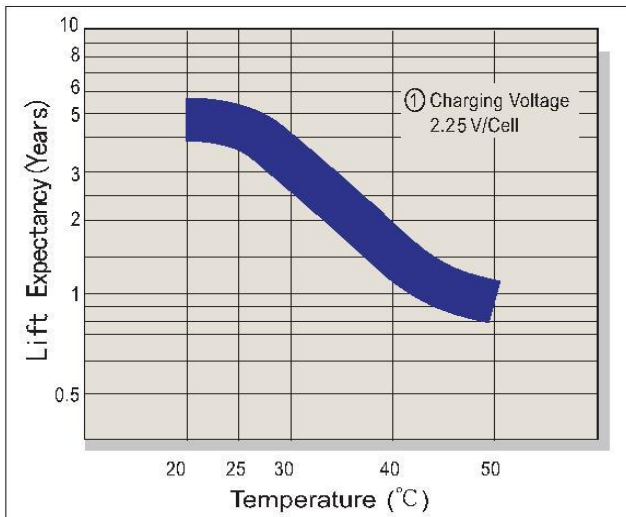
Constant Power Discharge Characteristics Unit: W(25°C,77°F)

F.V/Time	5MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	60.5	36.1	20.4	11.50	4.84	3.20	1.864	1.006
1.67V	57.8	34.4	20.3	11.40	4.80	3.19	1.856	1.004
1.70V	55.9	33.2	20.1	11.31	4.77	3.17	1.846	1.000
1.75V	51.1	30.7	19.8	11.14	4.69	3.12	1.824	0.993
1.80V	44.0	27.3	19.0	10.77	4.52	3.02	1.786	0.974
1.85V	34.3	23.0	17.6	10.01	4.17	2.85	1.701	0.937

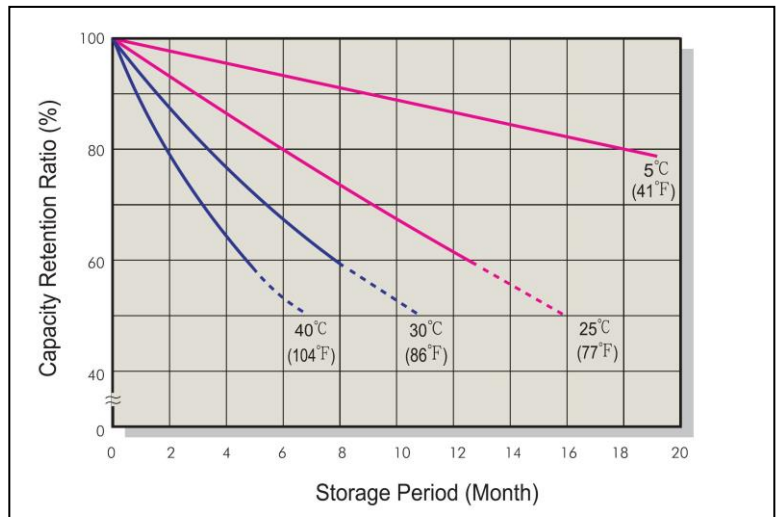
Ratings presented herein are subject to revision without notice.

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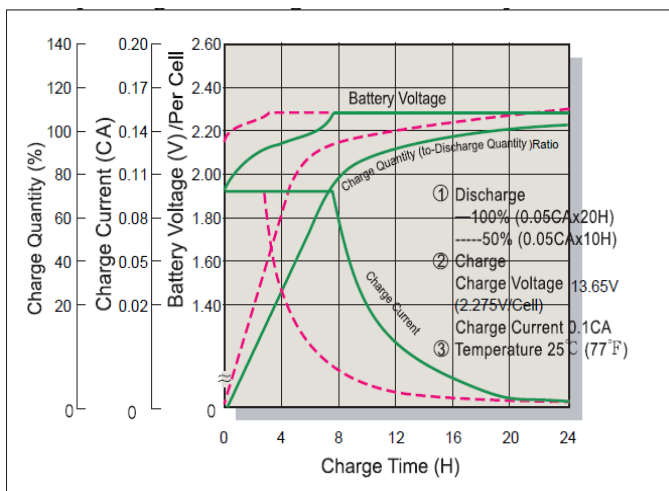
Trickle (or Float) Design Life



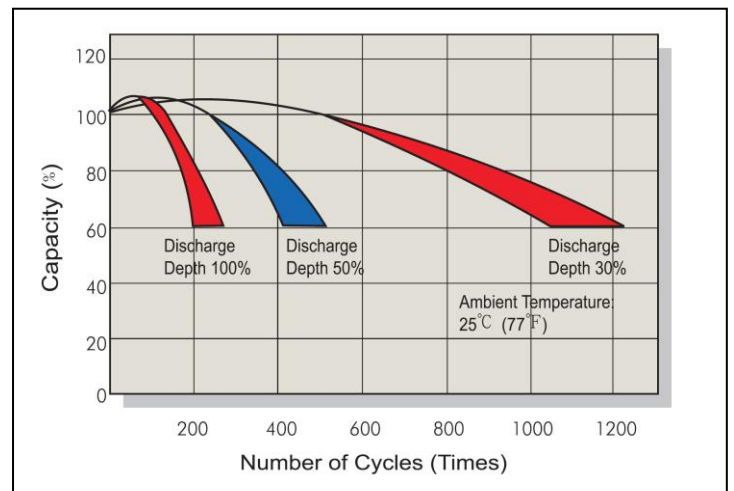
Capacity Retention Characteristic



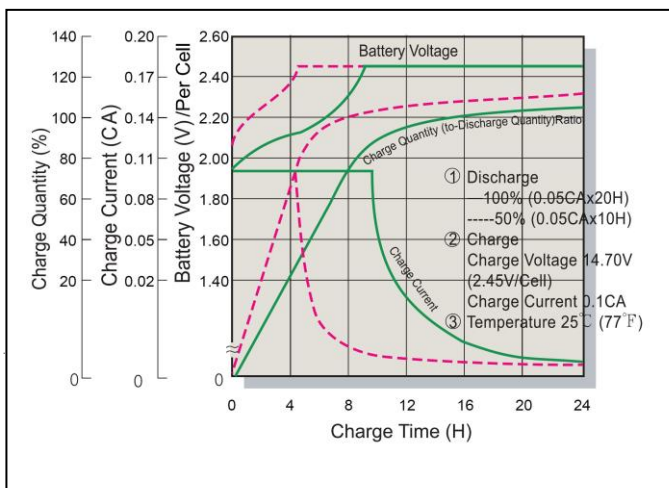
Battery Voltage and Charge Time for Standby Use



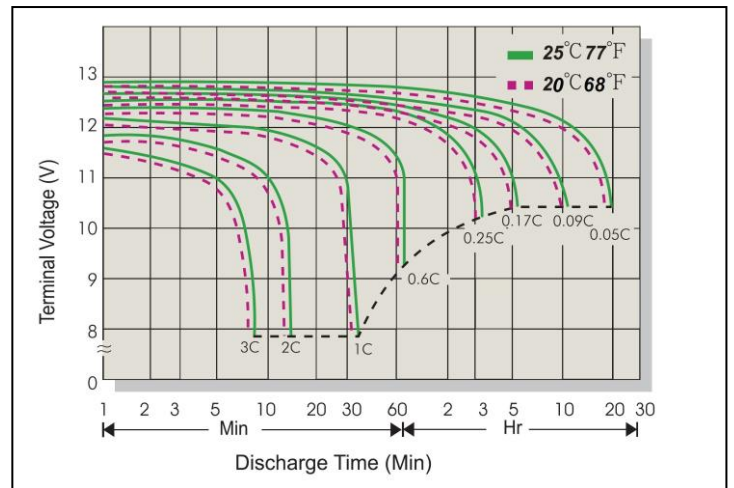
Cycle Service Life



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%