



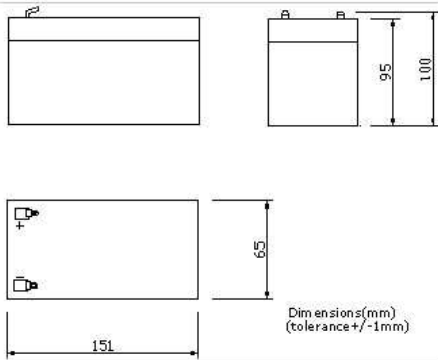
# 8Ah 12V Gel Battery

## PHYSICAL SPECIFICATION

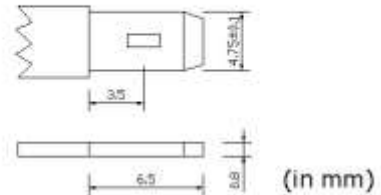
Nominal Voltage Nominal Capacity (20hr)		12V 8Ah
Dimension	Length	151±1mm (5.94 inches)
	Width	65±1mm (2.56 inches)
	Container Height	95±1mm (3.74 inches)
	Total Height	100±1mm (3.93 inches)
Weight		Approx. 2.30kg (5.07lbs) ±3%
Standard Terminal		Fasten Tab No.187E



Nova Code: **BAT-306**



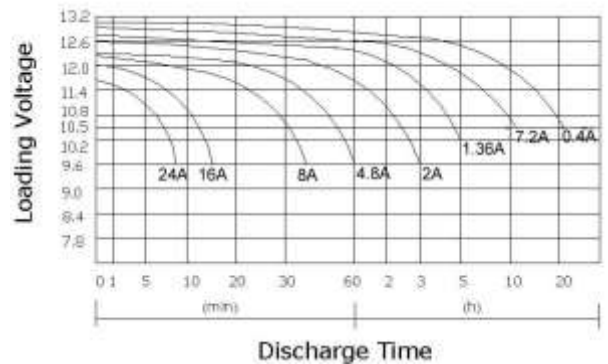
F1(Fasten Tab No.187E)  
Standard Terminal



## ELECTRICAL SPECIFICATION

Characteristics		
Capacity	20 hour rate (0.4A)	8.0Ah
	10 hour rate (0.72A)	7.6Ah
	5 hour rate (1.36A)	7.0Ah
	3 hour rate (2.0)	6.3Ah
	1 hour rate (4.8A)	4.8Ah
Capacity affected by Temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Internal Resistance		Fully charged Battery (25°C - 77 °F) 18mΩ
Constant Voltage Charge	Cycle	Initial charging current less than 2.4A Voltage 14.4 - 15.0V at 25°C (77 °F) Temperature coefficient - 30mV/°C
	Standby	No limit on initial charging current Voltage 13.5 - 13.8V at 25°C (77 °F) Temperature coefficient - 20mV/°C

### Discharge Curves @ 25°C (77 °F)



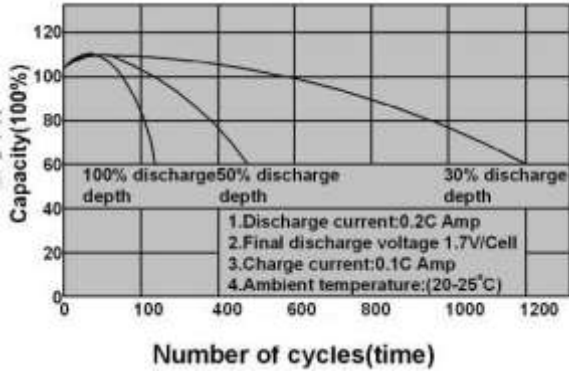
### CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	29.0	18.1	13.6	8.31	5.29	2.32	1.42	0.79	0.41
1.67V	27.2	17.1	13.1	7.94	5.21	2.23	1.38	0.77	0.40
1.70V	24.9	16.5	12.8	7.22	5.05	2.08	1.36	0.76	0.40
1.75V	24.5	16.0	12.3	6.86	4.81	2.01	1.33	0.74	0.39
1.80V	21.9	15.3	11.2	6.35	4.50	1.93	1.25	0.72	0.38

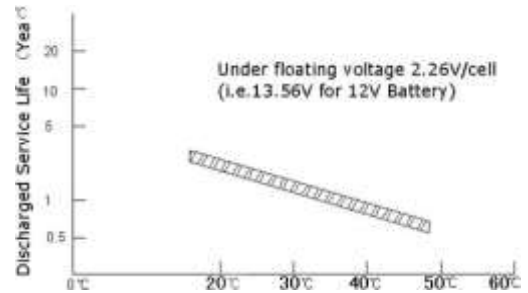
**CONSTANT POWER DISCHARGE RATING      WATT PER CELL@25°C**

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	50.9	32.6	24.9	15.0	9.53	4.11	2.41	1.59	0.83
1.67V	49.1	31.8	24.6	14.6	9.47	3.98	2.38	1.57	0.80
1.70V	46.3	31.4	24.3	13.7	9.29	3.81	2.35	1.55	0.79
1.75V	43.2	31.3	24.1	13.3	9.13	3.71	2.30	1.53	0.78
1.80V	42.6	30.9	22.4	12.7	8.61	3.60	2.26	1.50	0.75

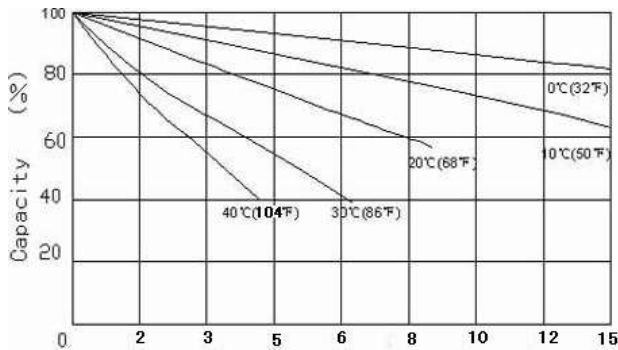
**Cycle Service Life**



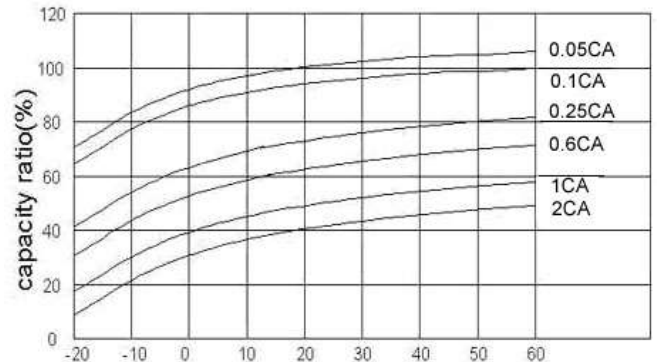
**Trickle (or Float) Service Life**



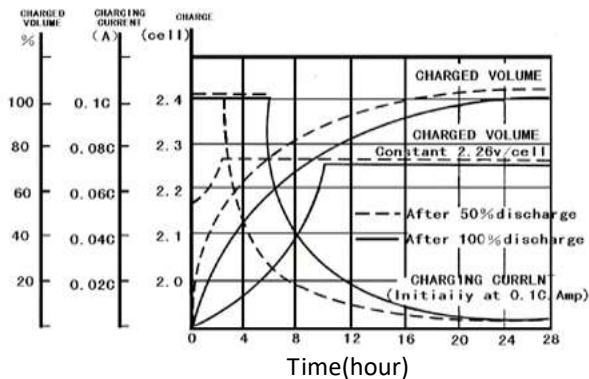
**Storage Time (months)**



**Temperature and Discharge Capacity**



**Charging Characteristic**



Storage Temperature	Supplementary Charge Interval	Charge Method
≤20°C	Every 12 months	Less or 24 hours with a constant voltage of 2.3V/Cell
20-30°C	Every 8 months	12-18 hours with a constant voltage of 2.45V/Cell
≥30°C	Storage to be avoided	8-12 hours with a constant current of 0.05CA