

The battery is manufactured with PVC-SiO<sub>2</sub> separator and colloidal or fumed silica. The tubular positive plate and pasted negative palte is applied. The batteries use silica gel to immobilize the electrolyte inside the battery. The proven silica gel technology improves battery cycle life and performance at various ambient temperatures.

## Battery Construction

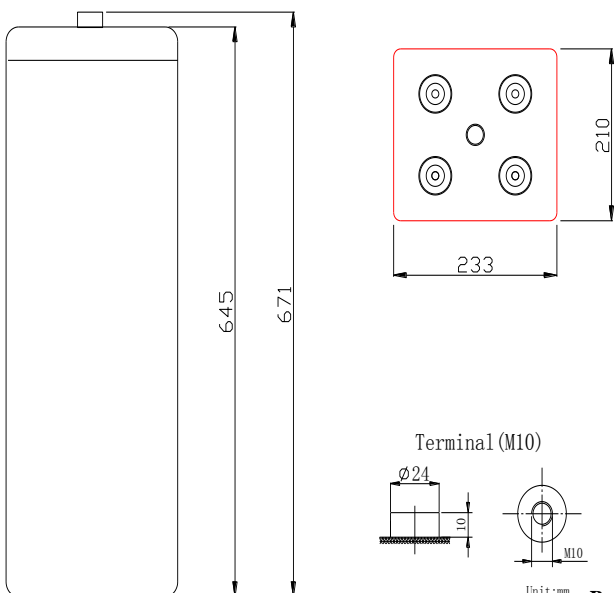
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Tubular	Lead	ABS	ABS	Rubber	Copper	PVC-SiO <sub>2</sub>	Fumed silicon

## General Feature

- The battery has a long service life, under float charging, ambient temperature 25°C, it can operate 15-20 years.
- Excellent Recovery from deep discharge and good deep discharge cycle capability.
- the battery has a low self-discharge, keep over 60% of the rated capacity after 2 years stored under 25°C
- High Reliability and Quality

## SPECIFICATION

Nominal voltage ..... 2V  
 Number of cell ..... 1  
 Length(mm/inch) ..... 233/9.17  
 Width(mm/inch) ..... 210/8.26  
 Height(mm/inch) ..... 645/25.4  
 Total Height(mm/inch) ..... 671/26.4  
 Approx. Weight (kg/lbs) ..... 76/167.5



## Performance Characteristics

Capacity 77°F(25°C)	240 hour rate (5.49A、1.85V)	1318Ah
	48 hour rate (26A、1.85V)	1250Ah
	10 hour rate (100A、1.8V)	1000Ah
	3 hour rate (250A、1.8V)	750Ah
Internal Resistance	Full charged Battery 77°F(25°C): 0.28mΩ	
Operating Temperature Range	Discharge: -20~65°C	
	Charge: -10~65°C	
	Storage: -20~65°C	
Self-Discharge 1.5% of capacity declined per month at 20°C (average)		
Max. discharge current 77°F(25°C): 5000A(5S)		
Charge (Constant Voltage)	Float: 2.23~2.27 V/77°F(25°C)	
	Cycle: 2.38~2.42 V/77°F(25°C)	
	Max. Current: 150A	

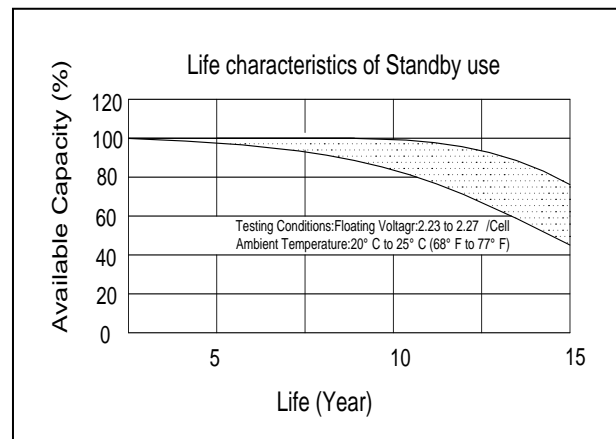
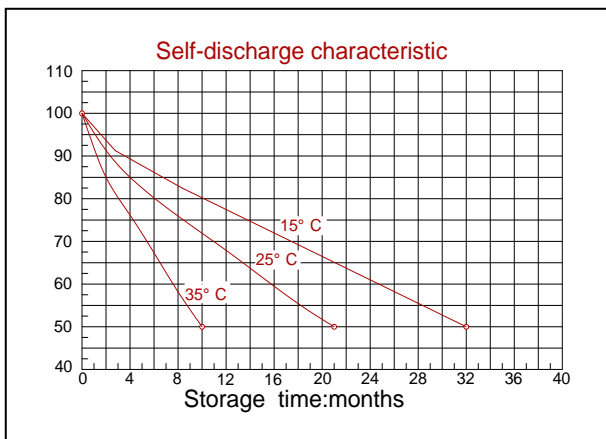
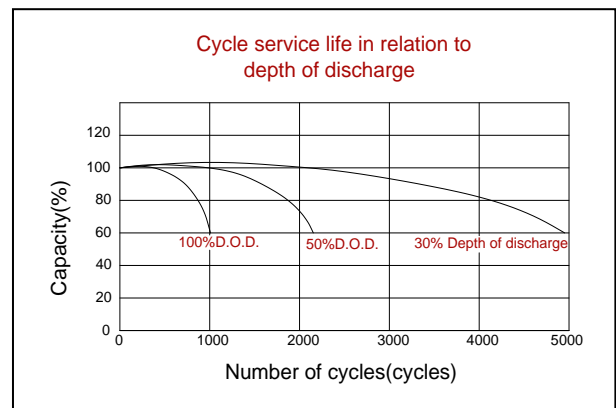
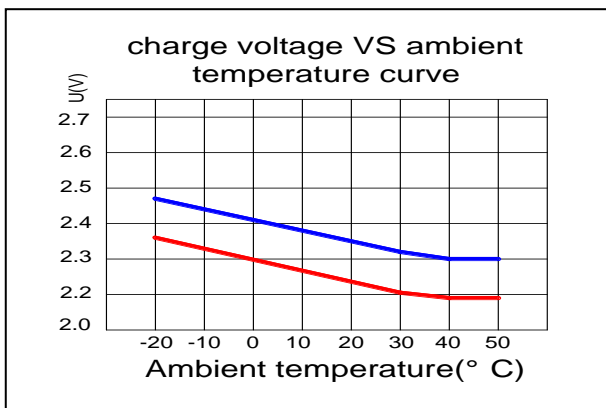
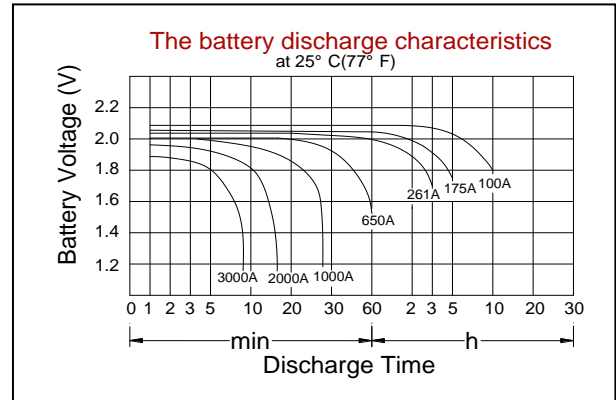
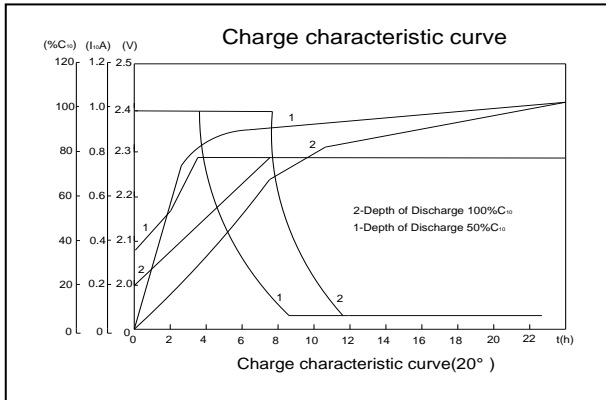
Discharge Constant Current (Amperes at 77° F25°C)

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	1260	940	590	269	189	---	---	---	---
1.70V	1140	855	555	261	179	---	---	---	---
1.75V	1075	810	520	257	175	102	---	---	---
1.80V	1010	756	510	250	168	100	---	---	---
1.85V	945	695	489	245	164	94.5	46.5	26.0	11.0

Discharge Constant Power (watts at 77° F25°C)

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	2455	1830	1180	535	376	---	---	---	---
1.70V	2225	1665	1105	520	357	---	---	---	---
1.75V	2095	1580	1040	510	347	203	---	---	---
1.80V	1970	1490	1015	497	334	199	---	---	---
1.85V	1845	1355	975	486	325	189	92.5	51.5	22.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



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