

The battery is manufactured with PVC-SiO₂ 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

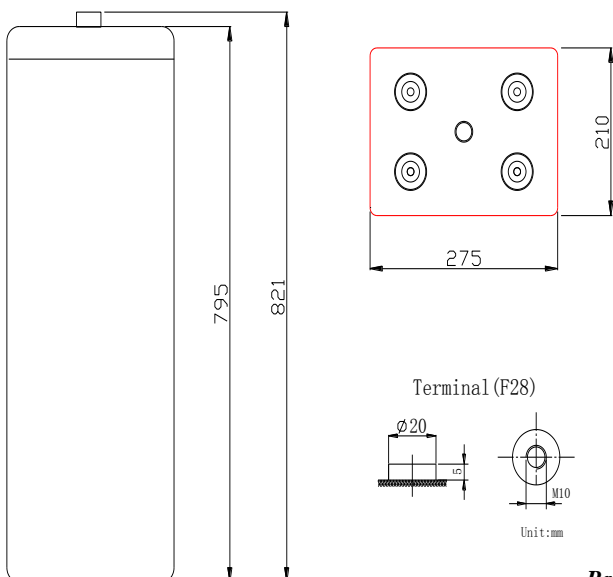
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Tubular	Lead	ABS	ABS	Rubber	Copper	PVC-SiO ₂	Fumed silicon

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) 275/10.8
 Width(mm/inch) 210/8.26
 Height(mm/inch) 795/31.3
 Total Height(mm/inch) 821/32.3
 Approx. Weight (kg/lbs) 120/264.5



Performance Characteristics

Capacity 77 ℉(25°C)	240 hour rate (8.08A、1.85V)	1939Ah
	48 hour rate (39A、1.85V)	1872Ah
	10 hour rate (150A、1.8V)	1500Ah
	3 hour rate (375A、1.8V)	1125Ah
Internal Resistance	Full charged Battery 77 ℉(25°C): 0.25mΩ	
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 ℉(25°C): 8000A(5S)		
Charge (Constant Voltage)	Float: 2.23~2.27 V/77° F/(25°C)	
	Cycle: 2.38~2.42 V/77 ℉(25°C) Max. Current: 225A	

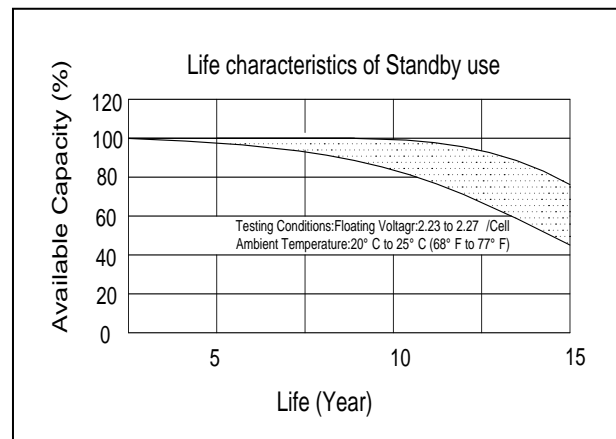
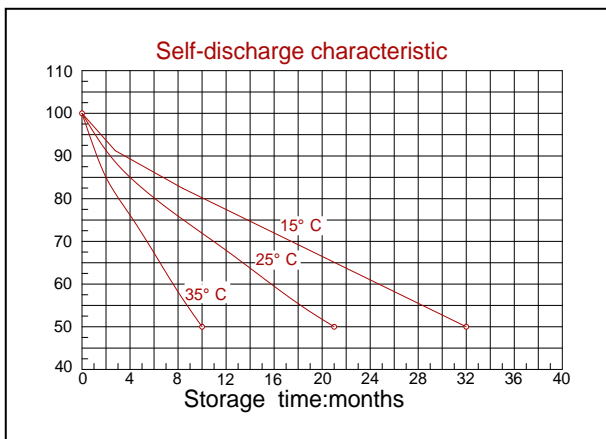
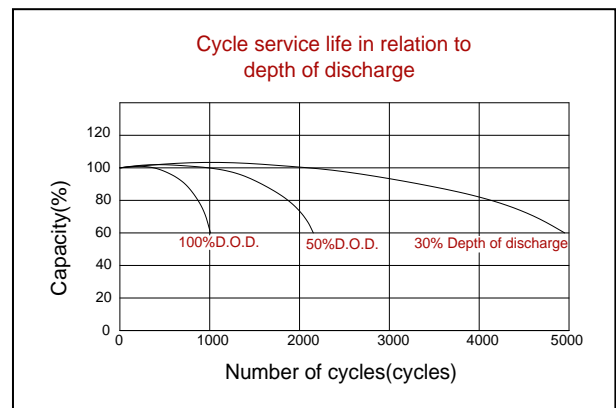
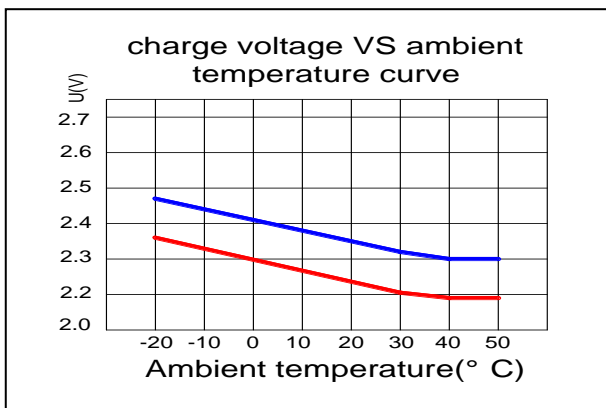
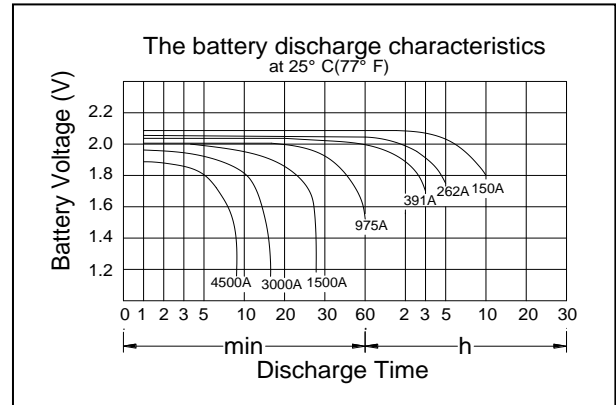
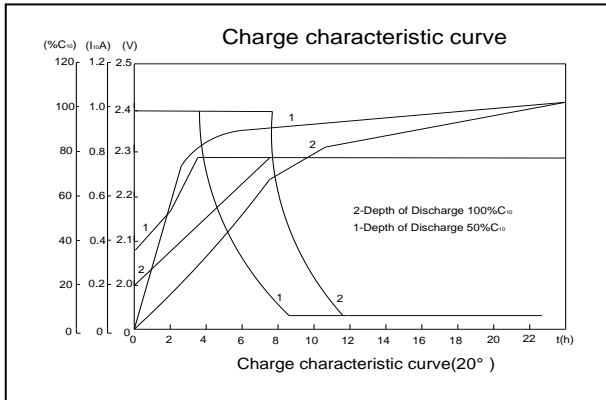
Discharge Constant Current (Amperes at 77° F/25°C)

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	1890	1410	885	403	284	---	---	---	---
1.70V	1710	1283	833	391	269	---	---	---	---
1.75V	1613	1215	780	386	262	153	---	---	---
1.80V	1515	1148	765	375	251	150	---	---	---
1.85V	1418	1043	734	367	245	142	69.8	39.0	16.5

Discharge Constant Power (watts at 77° F/25°C)

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	3683	2745	1770	803	563	---	---	---	---
1.70V	3338	2498	1658	780	535	---	---	---	---
1.75V	3143	2370	1560	765	521	305	---	---	---
1.80V	2955	2235	1523	746	500	299	---	---	---
1.85V	2768	2033	1463	730	488	283	139	77.3	33.2

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



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