



OPzV2000(2V2000Ah/10hr)



The battery is manufactured with PVC-SiO₂ separator and fumed silica. The tubular positive plate and pasted negative plate 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

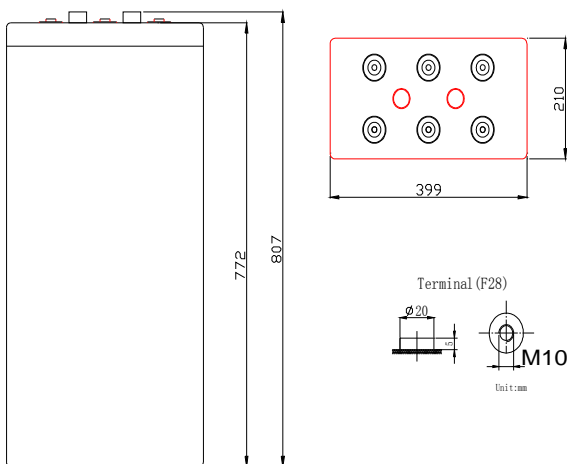
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Tubular	Lead	ABS	ABS	Rubber	Copper	PVC-SiO ₂	Fumed silica

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) 399/15.7
 Width(mm/inch) 210/8.26
 Height(mm/inch) 772/30.4
 Total Height(mm/inch) 807/31.8
 Approx. Weight (kg/lbs) 155/341



Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (24.9A、1.85V)	2490Ah
	48 hour rate (51A、1.85V)	2448Ah
	10 hour rate (200A、1.8V)	2000Ah
	3 hour rate (500A、1.8V)	1500Ah
Internal Resistance	Full charged Battery 77°F(25°C): 0.22mΩ	
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): 10000A(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: 400A	

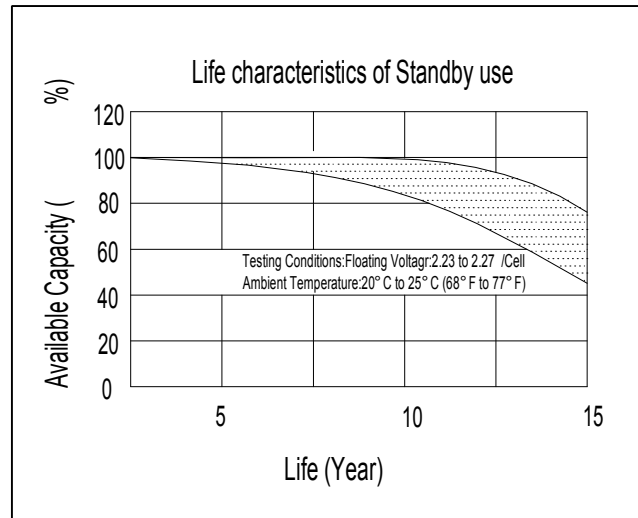
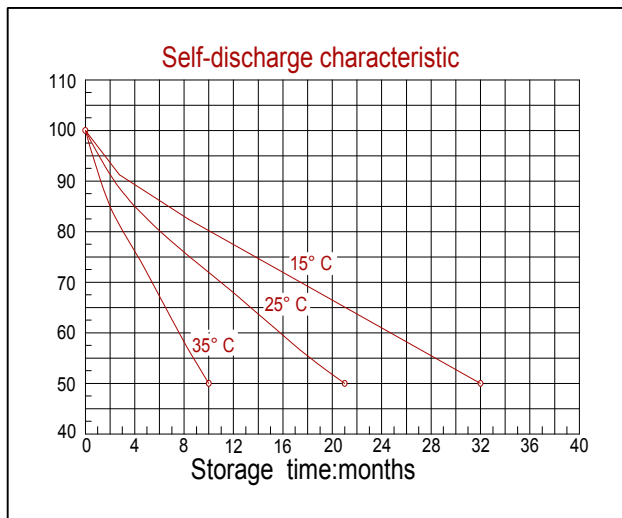
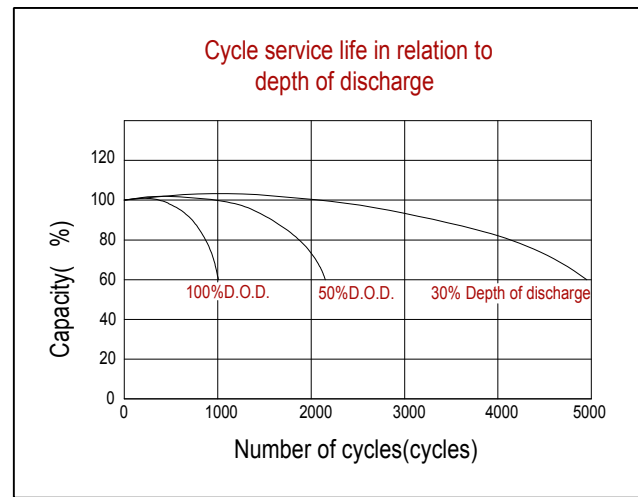
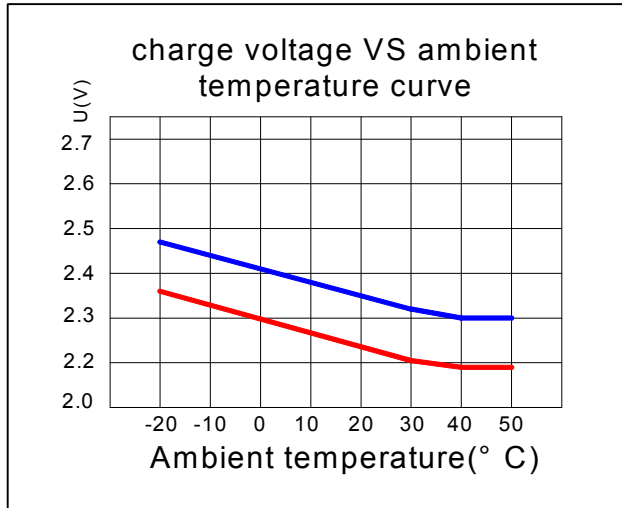
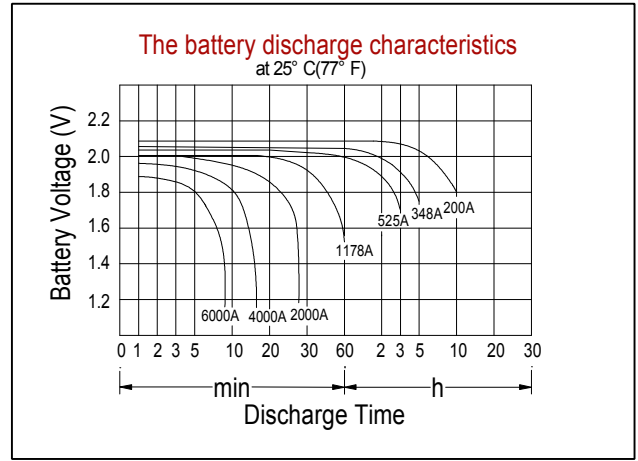
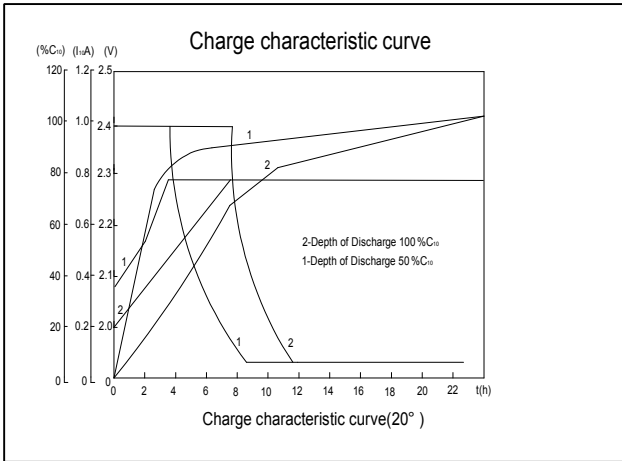
Discharge Constant Current (Amperes at 77° F 25°C)

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	24h	48h	100h
1.65V	2510	1880	1178	537	375	---	---	---	---
1.70V	2275	1705	1112	525	356	---	---	---	---
1.75V	2150	1622	1045	514	348	204	---	---	---
1.80V	2018	1532	1018	500	334	200	---	---	---
1.85V	1888	1391	980	488	326	189	93	51	24.9

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

End Point Volts/Cell	15min	30min	1h	3h	5h	10h	24h	48h	100h
1.65V	4905	3662	2360	1072	752	---	---	---	---
1.70V	4446	3305	2214	1043	715	---	---	---	---
1.75V	4192	3162	2082	1019	695	405	---	---	---
1.80V	3942	2980	2028	998	666	398	---	---	---
1.85V	3690	2715	4952	975	648	378	183	103	50.1

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



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