



# OPzS-2000 (2V2000Ah)

Rechargeable Lead Acid Battery

[www.oremabattery.com](http://www.oremabattery.com)

## General Features

The battery is manufactured with porous rubber and rubber separator and transparent AS case. The tubular positive plate, pasted negative plate and cid-proof bolt is applied. The recombination plugs may be applied for maintance-free over 5 years .

- (1) The battery has a long service life, under float charging, ambient temperature 25°C, it can operate over 20 years**
- (2) Maxium cycle stability and durability, over 3300 cycles at 50%DOD.**
- (3) The battery meet the standard specified in IEC896-1 and DIN40736.**
- (4) High Quality, highest reliability.**

## Typical Applications

- Energy storage for solar/wind power generation system
- DC power supply and backup power supply used in electricity utility and nuclear power stations
- Traffic systems: signling systems, lighting
- Telecommunication: mobile phone /BTS stations.
- Backup power for UPS and emergency light etc.

## Dimensions and Weight



Length ( mm / inch )..... 399 / 15.7  
 Width ( mm / inch ) ..... 214 / 8.42  
 Height ( mm / inch ) ..... 773 / 30.3  
 Total Height ( mm / inch )..... 825 / 32.4  
 Approx.Weight( Kg / lbs )  
 ... (dry).... 105.7/232.5  
 ... (flooded)... 153.4 / 337.5

## Performance Characteristics

Nominal Voltage .....	2V
Number of cell .....	1
Design Life .....	20years
Nominal Capacity 77°F(25°C)	
240 hour rate(12.2A, 1.85V) .....	2928Ah
100 hour rate(24.0A, 1.85V) .....	2400Ah
10 hour rate( 200A, 1.80V) .....	2000Ah
5 hour rate(336A, 1.80V) .....	1680Ah
3 hour rate (500A, 1.75V) .....	1500Ah
1 hour rate(1060A, 1.67V) .....	1060Ah
Self-Discharge -- 4.5% of capacity declined per 28days at 20°C(average)	
Operation Temperature Range	
Discharge .....	-20~65°C
Charge .....	-10~65°C
Storage .....	-20~65°C
Max.Discharge Current 77°F(25°C)	..... 10000A(5s)
Short Circuit Current .....	12750A

## Charge Method

Application	Initial charge	Equalizing charge	Float charge
Charging method	Constant Current Charging	Constant Voltage Charging	Constant Voltage Charging
Charging Voltage at 20°C	---	2.38~2.42v	2.23~2.27V
Temperature compensation coefficient of charging voltage	----	-3 mV/°C	-3 mV/°C
Charging current	100A	200A (Max. Current)	200A (Max. Current)
Charging time 20°C	100% discharge	60h	36h
	50% discharge	48h	24h
Temperture	0~45°C (32~113°F)		



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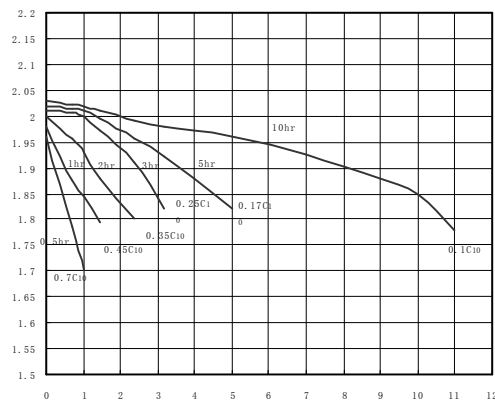
### Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	1298	995	660	510	410	348	304	244	204	-----	----	----	-----	-----
1.75V	1196	940	640	500	406	340	300	240	204	106	58.0	----	-----	----
1.80V	1110	880	620	474	400	336	290	236	200	104	58.0	----	-----	----
1.85V	1010	864	580	464	380	316	280	230	194	102	56.0	24.0	20.8	12.2
1.90V	985	810	520	440	354	306	270	220	186	96.0	54.0	23.6	20.4	12.0

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

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	2352	1852	1225	951	766	651	582	470	394	-----	----	----	-----	-----
1.75V	2176	1754	1196	937	762	641	576	462	394	211	116	----	-----	----
1.80V	2087	1646	1166	892	755	635	562	460	392	207	117	----	-----	----
1.85V	1921	1627	1098	882	725	608	550	454	384	204	113	48.8	42.4	25.0
1.90V	1862	1548	1000	845	684	594	536	438	372	193	110	48.0	41.8	24.6

Discharge characteristic



Note: 1.0C = 2000A in above figure <sup>h</sup>