



# OPzS-1000 (2V1000Ah)

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.**
- (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:moble phone /BTS stations.
- Backup power for UPS and emergency light etc.

## Dimensions and Weight



Length ( mm / inch )..... 233 /9.17  
 Width ( mm / inch ) .....210 / 8.27  
 Height ( mm / inch ) ..... 647 / 25.4  
 Total Height ( mm / inch ).....699 /27.4  
 Approx.Weight( Kg / lbs )  
 ... (dry).... 52.1 /114.6  
 ... (flooded)... 72.6/159.7

## Performance Characteristics

Nominal Voltage .....	2V
Number of cell .....	1
Design Life .....	20years
Nominal Capacity 77°F(25°C)	
240 hour rate(6.1A,1.85V) .....	1464Ah
100 hour rate(12.0A,1.85V) .....	1200Ah
10 hour rate( 100A,1.80V) .....	1000Ah
5 hour rate(168A,1.80V) .....	840Ah
3 hour rate (250A,1.75V) .....	750Ah
1 hour rate(530A,1.67V) .....	530Ah
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 .....	13600A

## 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	50A	100A (Max. Current)	100A (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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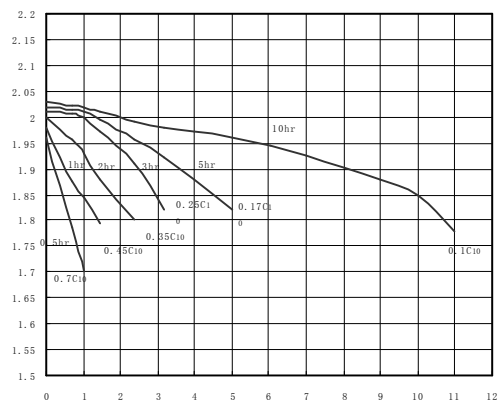
### Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	649	497	330	255	205	174	152	122	102	-----	----	----	-----	-----
1.75V	598	470	320	250	203	170	150	120	102	53.0	29.0	----	-----	----
1.80V	555	440	310	237	200	168	145	118	100	52.0	29.0	----	-----	----
1.85V	505	432	290	232	190	158	140	115	97.0	51.0	28.0	12.0	10.4	6.10
1.90V	492.5	405	260	220	177	153	135	110	93.0	48.0	27.0	11.8	10.2	6.00

### 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	1176	926	613	476	383	326	291	235	197	-----	----	----	-----	-----
1.75V	1088	877	598	469	381	321	288	231	197	106	58.0	----	-----	----
1.80V	1044	823	583	446	378	318	281	230	196	104	58.5	----	-----	----
1.85V	961	814	549	441	363	304	275	227	192	102	56.5	24.4	21.2	12.5
1.90V	931	774	500	423	342	297	268	219	186	96.5	55.0	24.0	20.9	12.3

Discharge characteristic



Note: 1.0C = 1000A in above figure <sup>h</sup>