



# OPzS-800 (2V800Ah)

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: mobile phone /BTS stations.
- Backup power for UPS and emergency light etc.

## Dimensions and Weight



Length ( mm / inch )..... 191 /7.52  
 Width ( mm / inch ) .....210 / 8.27  
 Height ( mm / inch ) ..... 647 / 25.4  
 Total Height ( mm / inch ).....699 /27.4  
 Approx.Weight( Kg / lbs )  
 ... (dry).... 42.9 /94.4  
 ... (flooded)... 59.4 /130.7

## Performance Characteristics

Nominal Voltage .....	2V
Number of cell .....	1
Design Life .....	20years
Nominal Capacity 77°F(25°C)	
240 hour rate(4.88A, 1.85V) .....	1170Ah
100 hour rate(9.6A, 1.85V) .....	960Ah
10 hour rate( 80A, 1.80V) .....	800Ah
5 hour rate(134A, 1.80V) .....	672Ah
3 hour rate (200A, 1.75V) .....	600Ah
1 hour rate(424A, 1.67V) .....	424Ah
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) .....	8000A(5s)
Short Circuit Current .....	10800A

## 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	40A	80A (Max. Current)	80A (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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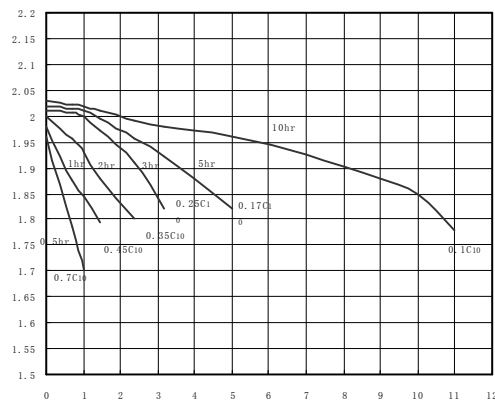
### Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	519	398	264	204	164	139	121.6	97.6	81.6	----	----	----	----	----
1.75V	478	376	256	200	162	136	120	96.0	81.6	42.4	23.2	----	----	----
1.80V	444	352	248	190	160	134	116	94.4	80.0	41.6	23.2	----	----	----
1.85V	404	346	232	186	152	126	112	92.0	77.6	40.8	22.4	9.60	8.32	4.88
1.90V	394	324	208	176	142	122	108	88.0	74.4	38.4	21.6	9.44	8.16	4.80

### 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	941	741	490	381	306	261	233	188	158	----	----	----	----	----
1.75V	870	702	478	375	305	257	230	185	158	84.8	46.4	----	----	----
1.80V	835	658	466	357	302	254	225	184	157	83.2	46.8	----	----	----
1.85V	769	651	439	353	290	243	220	182	154	81.6	45.2	19.5	17.0	10.0
1.90V	745	619	400	338	274	238	214	175	149	77.2	44.0	19.2	16.7	9.84

Discharge characteristic



Note: 1.0C = 800A in above figure