



OPzS-600 (2V600Ah)

Rechargeable Lead Acid Battery

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).....145 / 5.71
 Width (mm / inch)206 / 8.11
 Height (mm / inch) 647 / 25.4
 Total Height (mm / inch).....699 /27.4
 Approx.Weight(Kg / lbs)
 ... (dry).... 31.3/ 68.9
 ... (flooded)... 43.1 /94.8

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	20years
Nominal Capacity 77°F(25°C)	
240 hour rate(3.63A,1.85V)	872Ah
100 hour rate(7.20A,1.85V)	720Ah
10 hour rate(60.0A,1.80V)	600Ah
5 hour rate(100A,1.80V)	504Ah
3 hour rate (150A,1.75V)	450Ah
1 hour rate(318A,1.67V)	318Ah
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)	3000A(5s)
Short Circuit Current	4630A

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	30A	60A (Max. Current)	60A (Max. Current)
Charging time 20°C	100% discharge	60h	36h
	50% discharge	48h	24h
Temperture	0~45°C (32~113°F)		



OPzS-600 (2V600Ah)

Rechargeable Lead Acid Battery

www.oremabattery.com

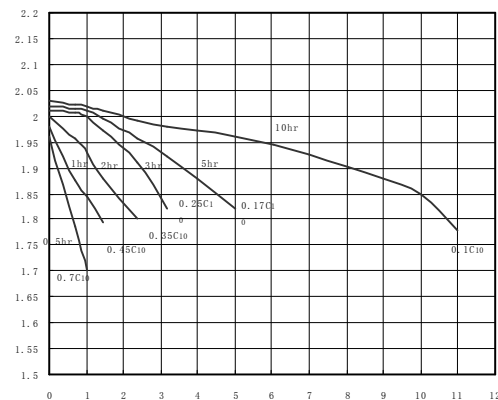
Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	394	304	198	154	124	104	91.2	73.2	61.2	----	----	----	----	----
1.75V	360	283	192	150	122	102	90.0	72.0	61.2	31.8	17.4	----	----	----
1.80V	340	265	186	143	120	101	87.0	70.8	60.0	31.2	17.4	----	----	----
1.85V	310	259	174	139	114	94.8	84.0	69.0	58.2	30.6	16.8	7.20	6.24	3.64
1.90V	298	244	156	132	106	91.8	81.0	66.0	55.8	28.8	16.2	7.08	6.12	3.60

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	720	569	374	292	235	199	175	142	118	----	----	----	----	----
1.75V	666	536	365	287	234	197	173	139	118	63.4	34.8	----	----	----
1.80V	640	504	356	274	232	194	169	138	118	62.2	35.0	----	----	----
1.85V	588	498	336	270	222	186	166	137	115	61.2	34.1	14.6	12.7	7.50
1.90V	570	473	305	259	210	182	161	132	112	58.1	33.0	14.4	12.6	7.38

Discharge characteristic



Note: 1.0C = 600A in above figure