



OPzS-200 (2V200Ah)

Rechargeable Lead Acid Battery

www.oremabattery.com

General Features

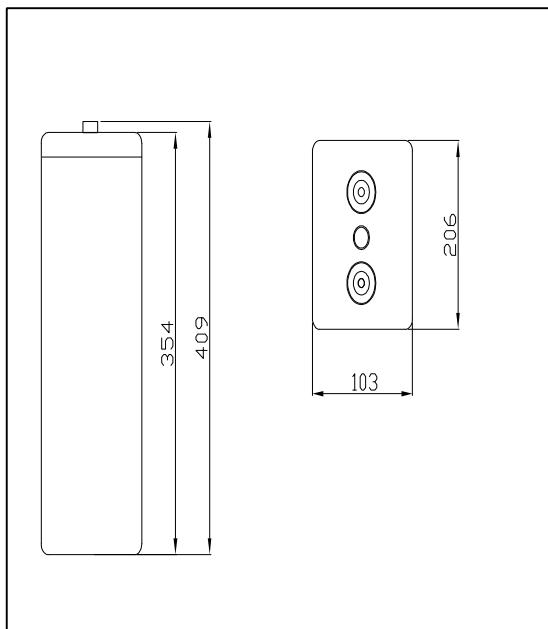
The battery is manufactured with porous rubber and rubber separator and transparent AS case. The tubular positive plate, pasted negative plate and cid-proof bolt is applied. The recombination plugs may be applied for maintance-free over 5 years .

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

Dimensions and Weight



Length (mm / inch).....103 / 4.05
 Width (mm / inch)206 / 8.11
 Height (mm / inch) 355 / 14.0
 Total Height (mm / inch).....407 / 16.2
 Approx.Weight(Kg / lbs)
 ... (dry).... 12.4 / 27.3
 ... (flooded)...16.2 / 35.6

Performance Characteristics

Nominal Voltage2V
 Number of cell 1
 Design Life 20years
 Nominal Capacity 77°F(25°C)
 240 hour rate(1.22A,1.85V) 293Ah
 100 hour rate(2.40A,1.85V)240Ah
 10 hour rate(20.0A,1.80V)200Ah
 5 hour rate(33.6A,1.80V)168Ah
 3 hour rate (50.0A,1.75V) 150Ah
 1 hour rate(90A,1.75V) 90Ah
 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)
 1000A(5s)
 Short Circuit Current2220A

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	10A	20A (Max. Current)	20A (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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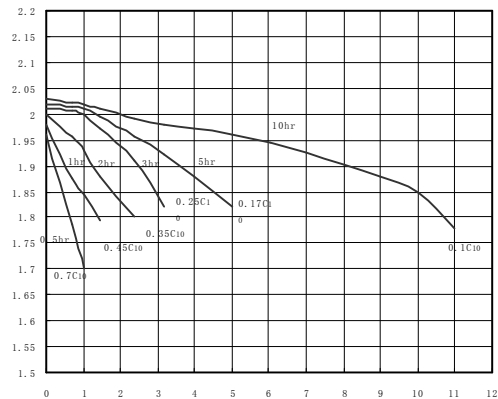
Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	131	96.0	66.0	51.0	41.0	34.8	30.4	24.4	20.4	-----	----	----	-----	-----
1.75V	120	90.0	64.0	50.0	40.6	34.0	30.0	24.0	20.4	10.6	5.80	----	-----	----
1.80V	113	88.2	62.0	47.4	40.0	33.6	29.0	23.6	20.0	10.4	5.80	----	-----	----
1.85V	103	86.4	58.0	46.4	38.0	31.6	28.0	23.0	19.4	10.2	5.60	2.40	2.08	1.22
1.90V	99.0	81.0	52.0	44.0	35.4	30.6	27.0	22.0	18.6	9.60	5.40	2.36	2.04	1.20

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	240	189	125	97.0	78.2	66.4	58.2	47.0	39.4	-----	----	----	-----	-----
1.75V	222	179	122	95.6	77.8	65.4	57.6	46.2	39.4	21.1	11.6	-----	-----	----
1.80V	213	168	119	91.0	77.0	64.8	56.2	46.0	39.2	20.7	11.7	----	---	----
1.85V	196	166	112	90.0	74.0	62.0	55.0	45.4	38.4	20.4	11.3	4.88	4.24	2.50
1.90V	190	158	102	86.2	69.8	60.6	53.6	43.8	37.2	19.3	11.0	4.80	4.18	2.46

Discharge characteristic



Note: 1.0C = 200A in above figure