OPzS-350（2V350Ah）

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 apllied. The recombination plugs may be apllied for maintance-free over 5 years .

(1) The battery has a long service life,under float charging,ambient temperature 25℃,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)……..…124 / 4.88
Width (mm / inch) ……..……206 / 8.11
Height (mm / inch) …….…... 470 /18.5
Total Height (mm / inch)…….524/ 21.40
Approx.Weight(Kg / lbs)
…(dry)…. 20.5 / 45.1
…(flooded)… 28.4 / 62.5

Performance Characteristics

Nominal Voltage ……..……2V
Number of cell ……..…..…... 1
Design Life …….…… 20years
Nominal Capacity 77°F(25°C)
240 hour rate(2.14A,1.85V) ……. 513Ah
100 hour rate(4.20A,1.85V) …… 420Ah
10 hour rate(35.0A,1.80V) ……..…350Ah
5 hour rate(58.8A,1.80V) ……..…294Ah
3 hour rate (87.5A,1.75V) ……... 437Ah
1 hour rate(186A,1.67V) ……186Ah
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)
…. 1750A(5s)
Short Circuit Current ……..2750A

Charge Method

Application		Initial charge	Equalizing charge	Float charge
Charging method		Constant Current Charging	Constant Voltage Charging	Constant Voltage Charging
Charging Voltage at 20℃		---	2.38~2.42v	2.23~2.27V
Temperature compensation coefficient of charging voltage		----	-3 mV/℃	-3 mV/℃
Charging current		17.5A	35A (Max. Current)	35A (Max. Current)
Charging time 20℃	100% discharge	60h	60h	36h
	50% discharge	48h	48h	24h
Temperture		0~45℃ (32~113℉)		

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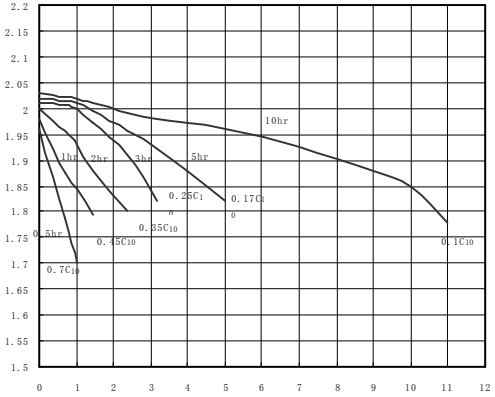
Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30’	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	229	177	116	89.3	71.8	60.9	53.2	42.7	35.7	-----	----	----	-----	-----
1.75V	210	165	112	87.5	71.1	59.5	52.5	42.0	35.7	18.6	10.2	----	-----	----
1.80V	198	154	109	83.0	70.0	58.8	50.8	41.3	35.0	18.2	10.2	----	-----	----
1.85V	180	151	102	81.2	66.5	55.3	49.0	40.3	34.0	17.9	9.80	4.20	3.64	2.14
1.90V	173	142	91.0	77.0	62.0	53.6	47.3	38.5	32.6	16.8	9.45	4.13	3.57	2.10

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	420	331	218	170	137	116	102	82.3	69.0	-----	----	----	-----	-----
1.75V	389	313	213	167	136	114	101	80.9	69.0	36.9	20.3	-----	-----	----
1.80V	373	294	208	159	135	113	98.4	80.5	68.6	36.2	20.4	----	---	----
1.85V	343	291	196	158	130	109	96.3	79.5	67.2	35.7	19.8	8.54	7.42	4.38
1.90V	333	276	178	151	122	106	93.8	76.7	65.1	33.8	19.2	8.40	7.32	4.31

Discharge charactistic



Note: 1.0C = 350A in above figure