



OPzS-1500 (2V1500Ah)

Rechargeable Lead Acid Battery

www.oremabattery.com

General Features

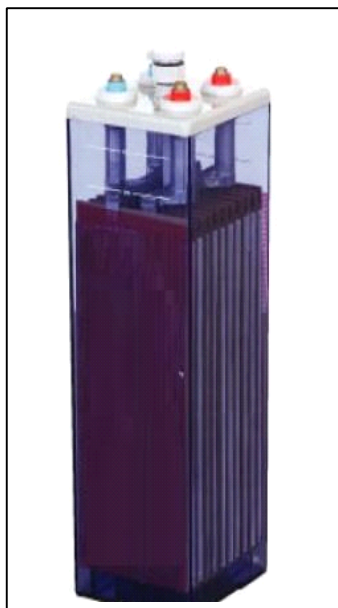
The battery is manufactured with porous rubber and rubber separator and transparent AS case. The tubular positive plate, pasted negative plate and cid-proof bolt is applied. The recombination plugs may be applied for maintance-free over 5 years .

- (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)..... 275 / 10.8
 Width (mm / inch)210 / 8.27
 Height (mm / inch) 798 / 31.3
 Total Height (mm / inch).....850 / 33.4
 Approx.Weight(Kg / lbs)
 ... (dry).... 76.8 / 169
 ... (flooded)... 108.8 / 239.4

Performance Characteristics

Nominal Voltage2V
 Number of cell 1
 Design Life 20years
 Nominal Capacity 77°F(25°C)
 240 hour rate(9.1A,1.85V) 2196Ah
 100 hour rate(18.0A,1.85V)1800Ah
 10 hour rate(150A,1.80V)1500Ah
 5 hour rate(252A,1.80V) 1260Ah
 3 hour rate (375A,1.75V) 1125Ah
 1 hour rate(795A,1.67V)795Ah
 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)
 7500A(5s)
 Short Circuit Current9700A

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	75A	150A (Max. Current)	150A (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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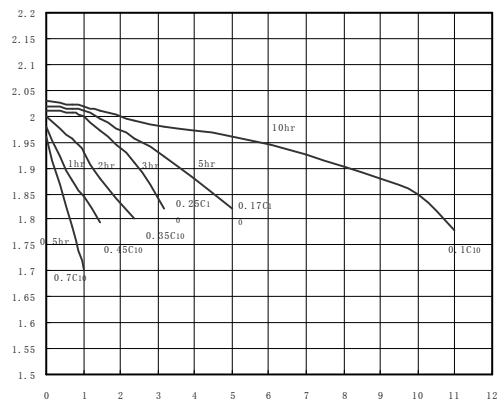
Discharge Constant Current (Amperes at 77°F/25°C)

EndPoint Volts/Cell	30'	1h	2h	3h	4h	5 h	6h	8h	10h	24h	48h	100h	120h	240h
1.70V	974	746	495	383	308	261	228	183	153	-----	----	----	-----	-----
1.75V	897	705	480	375	305	255	225	180	153	79.5	43.5	----	-----	----
1.80V	833	660	465	356	300	252	218	177	150	78.0	43.5	----	-----	----
1.85V	758	648	435	348	285	237	210	173	146	76.5	42.0	18.0	15.6	9.10
1.90V	739	608	390	330	266	230	203	165	140	72.0	40.5	17.7	15.3	9.00

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	1764	1389	920	714	575	489	437	353	296	-----	----	----	-----	-----
1.75V	1632	1316	897	704	572	482	432	347	296	159	87.0	----	-----	----
1.80V	1566	1235	875	669	567	477	422	345	294	156	87.8	----	-----	----
1.85V	1442	1221	824	662	545	456	413	341	288	153	84.8	36.6	31.8	18.8
1.90V	1397	1161	750	635	513	446	402	329	279	145	82.5	36.0	31.4	18.5

Discharge characteristic



Note: 1.0C = 1500A in above figure ^h