

OPzS2-1200

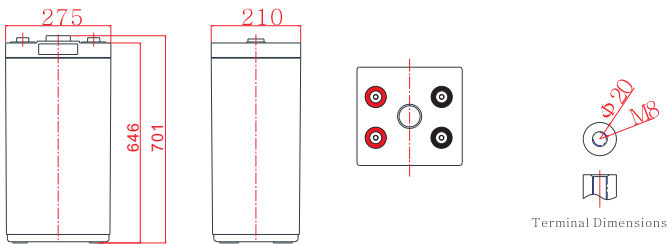


General Features

- > Tubular plate design to enhance battery performance
- > Tubular plate design makes long battery life
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology



Dimension: 275(L)×210(W)×646(H)×701(TH) Unit: mm



Applications

- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

Specification

Nominal Voltage	2V	
Nominal Capacity	1200Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 92kg (203lbs)(Dry cell 67.8Kg)	
Container Material	ABS	
Rated Capacity	1200Ah	10Hour Rate (120.0A to 1.80V)
	906Ah	3Hour Rate (302A to 1.80V)
	669Ah	1Hour Rate (669A to 1.75V)
Internal resistance	Full charged at 25°C: 0.21 mΩ	
Max. Discharge Current	9950A(5S)	
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)	
	Charge: -20 ~50°C(-4~ 122°F)	
	Storage: -20 ~50°C(-4~ 122°F)	
Charge current:	Max.240A ; Recom.120A	
Charge Method (25 °C)	Float Charge:2.23-2.27V,recom.2.25V(-3mV/ °C)	
	Equalize charge:2.30-2.35V,recom.2.35V(-4mV/ °C)	
	Cycle charge:2.40-2.50V,recom.2.40V(-5mV/ °C)	
Self discharge	3% of capacity declined per month at 25°C	

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

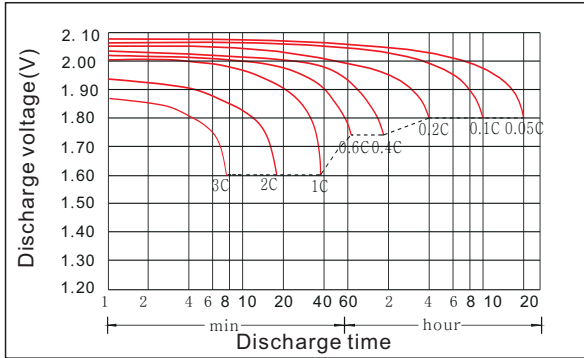
F. V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	1516	1062	727	453	328	225	161	135	78.6
1.65V	1463	1027	710	445	322	223	160	133	77.5
1.70V	1378	984	689	422	317	219	159	133	76.6
1.75V	1307	947	669	423	310	216	155	131	75.5
1.80V	1149	867	637	407	302	210	151	127	74.5
1.85V	971	729	592	385	294	204	147	126	72.0

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

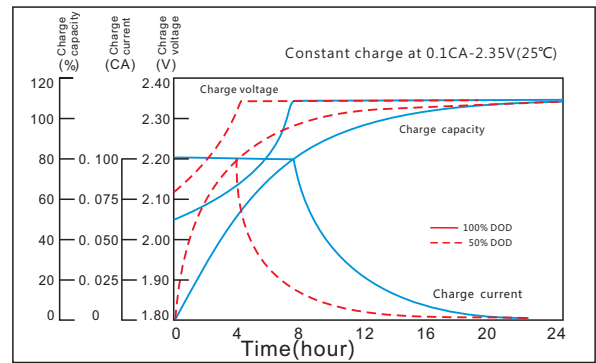
F. V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	3030	2149	1645	908	699	466	338	286	149
1.65V	2886	2036	1531	901	689	462	336	283	147
1.70V	2748	1943	1434	889	676	456	331	280	146
1.75V	2606	1865	1349	864	660	440	326	274	145
1.80V	2443	1790	1272	834	641	420	310	260	144
1.85V	2283	1720	1252	803	610	408	302	249	140

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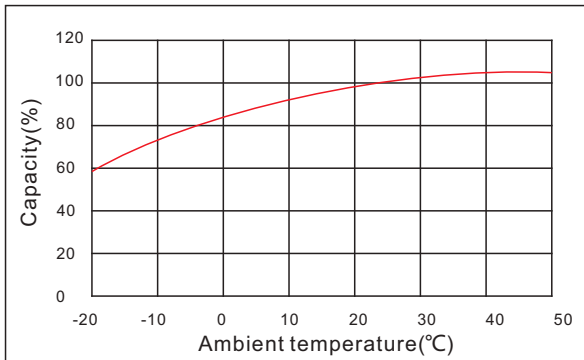
Discharge characteristic



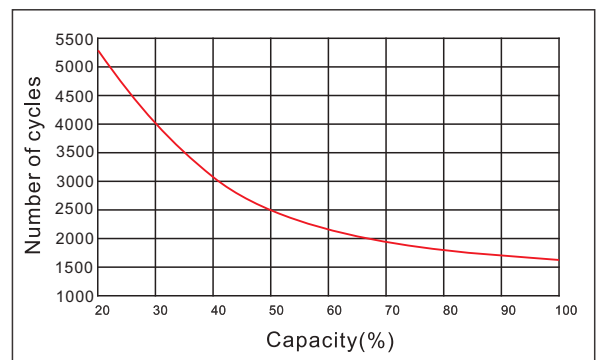
Charging characteristic



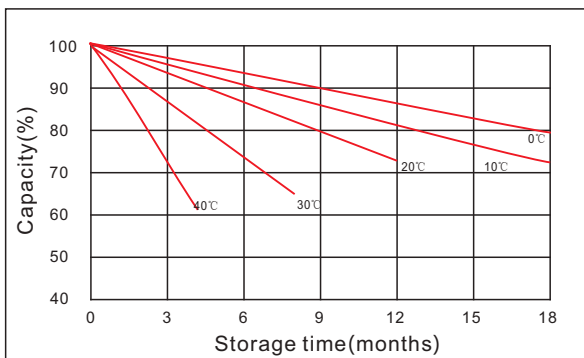
The effect of temperature on capacity



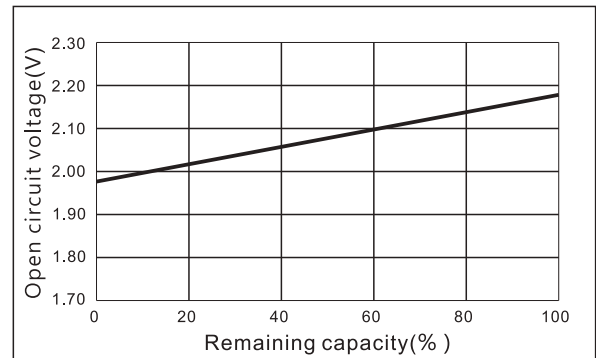
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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