

OPzV2-1200

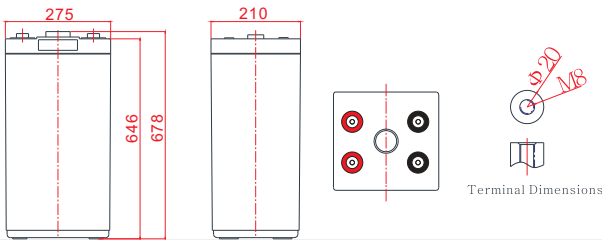


General Features

- > 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: 210(L)×275(W)×646(H)×678(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 91.6kg (202lbs)		
Container Material	ABS		
Rated Capacity	1200Ah	10Hour Rate	(120A to 1.80V)
	906Ah	3Hour Rate	(302A to 1.80V)
	666Ah	1Hour Rate	(666A to 1.75V)
Internal resistance	Full charged at 25°C: 0.35 mΩ		
Max. Discharge Current	6000A(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. 240.0A ; Recom.120.0A		
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)

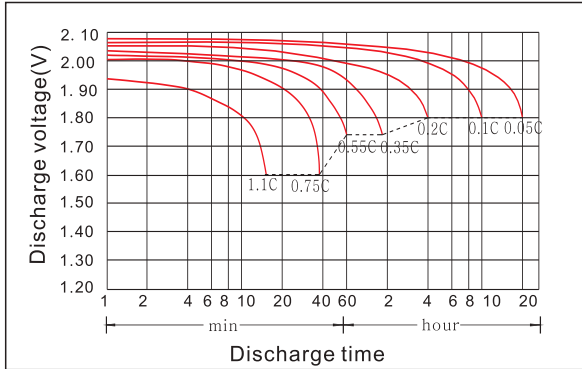
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1314	1050	726	448	322	221	155	127	68.4
1.65V	1248	1002	714	440	317	218	153	127	67.8
1.70V	1188	936	690	429	313	214	151	124	66.6
1.75V	1122	876	666	418	308	209	149	122	65.4
1.80V	1008	804	624	404	302	203	146	120	64.2
1.85V	852	714	584	388	290	196	142	118	62.4

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

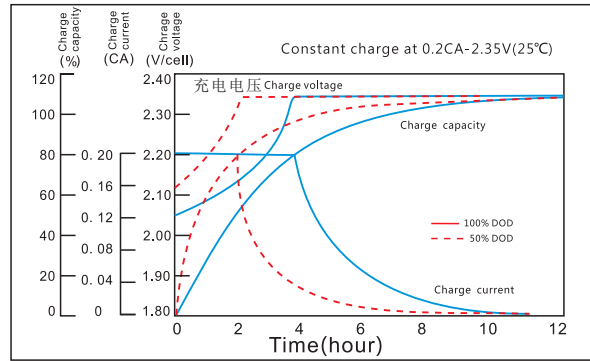
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	2622	2082	1410	882	678	453	324	269	144
1.65V	2496	1980	1338	870	660	446	319	257	141
1.70V	2388	1896	1302	852	642	437	312	257	137
1.75V	2262	1812	1254	828	624	425	305	252	134
1.80V	2148	1746	1260	804	606	413	297	245	131
1.85V	1968	1650	1152	762	577	393	286	238	127

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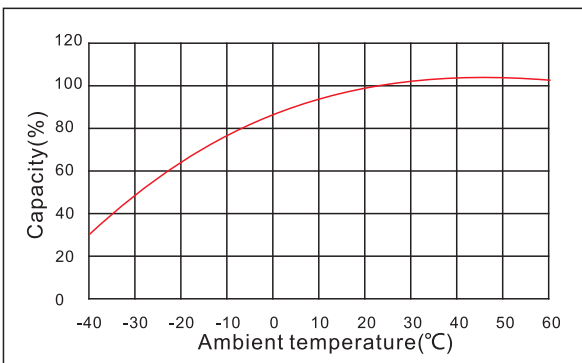
Discharge characteristic



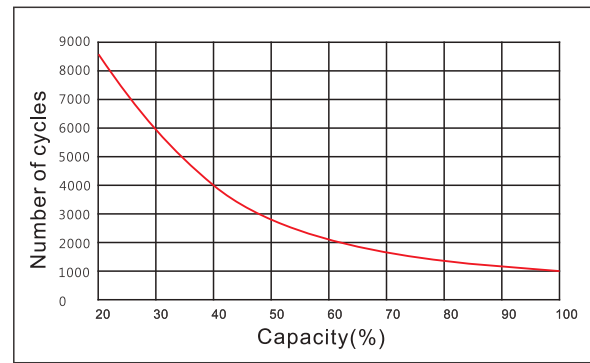
Charging characteristic



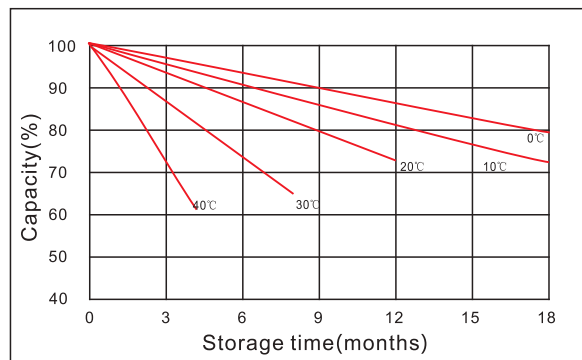
The effect of temperature on capacity



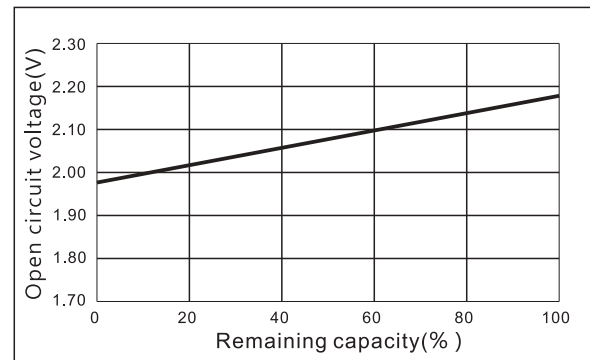
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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