

OPzV2-1200

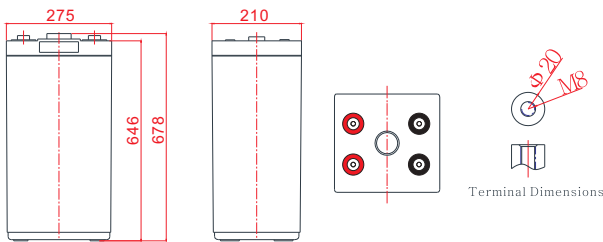


General Features

- > 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 91kg (200.6lbs)		
Container Material	ABS		
Rated Capacity	1200Ah	10Hour Rate	(120A to 1.80V)
	900Ah	3Hour Rate	(300A to 1.80V)
	600Ah	1Hour Rate	(600A to 1.80V)
Internal resistance	Full charged at 25°C: 0.35 mΩ		
Max. Discharge Current	6000A(5S)		
Operating Temperature	Discharge: -15~50°C(5~ 122°F)		
	Charge: -15~50°C(5~ 122°F)		
	Storage: -20 ~40°C(-4~ 104°F)		
Charge current:	Max. 240.0A ; Recom.120.0A		
Charge Method (25 °C)	Float Charge:2.23-2.25V,recom.2.25V(-3mV/ °C)		
	Equalize charge:2.30-2.40V,recom.2.35V(-4mV/ °C)		
	Cycle charge:2.35-2.45V,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)

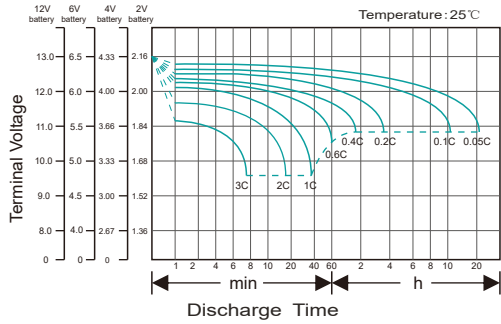
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1247	980	713	446	321	255	216.8	190.7	153.8	125.9	64.4
1.65V	1176	933	671	434	315	249	214.4	188.3	152.7	125.3	64.0
1.70V	1111	891	659	422	309	248	211.5	185.3	150.9	124.7	63.5
1.75V	1040	843	618	410	303	244	207.9	181.8	147.9	123.0	63.0
1.80V	968	790	600	398	300	238	204.0	177.0	144.3	120.0	61.2
1.85V	891	719	552	374	285	232	196.6	171.1	140.2	117.6	60.2

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

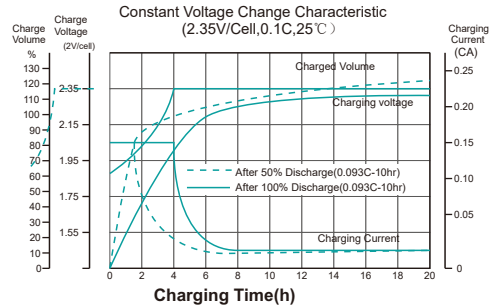
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	2150	1723	1301	832	606	484.1	411.6	362.9	294.0	241.2	123.7
1.65V	2055	1634	1224	814	597	474.6	408.1	359.4	292.2	240.6	123.2
1.70V	1942	1568	1206	796	588	473.4	403.9	354.6	289.9	240.0	122.8
1.75V	1835	1503	1152	778	579	466.3	398.6	349.3	285.1	237.6	122.3
1.80V	1734	1443	1105	760	570	456.8	390.9	341.0	278.6	231.1	119.0

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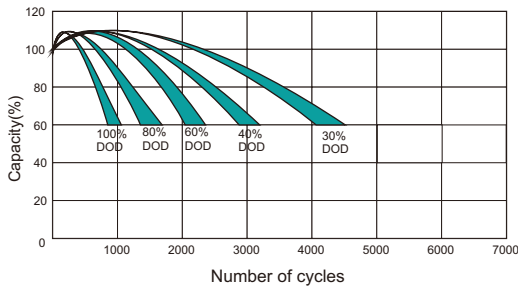
Discharge Characteristics Curve



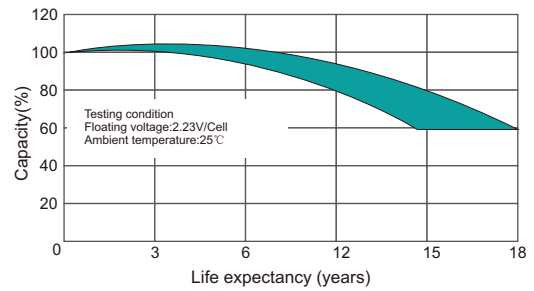
Charging Characteristics Curve



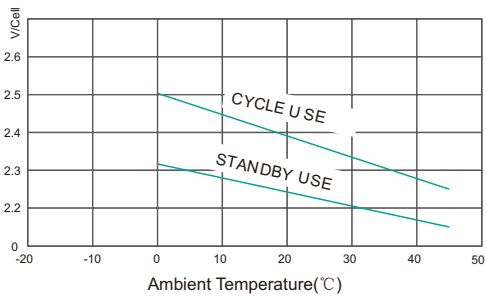
Cycle life of Different DOD



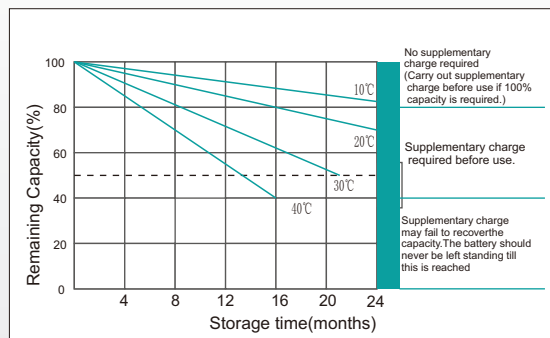
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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