

OPzV2-1000

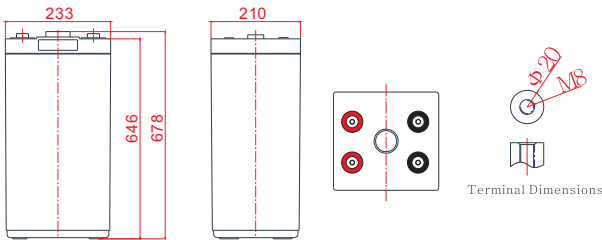


General Features

- > 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)×233(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	1000Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 77.5kg (171lbs)		
Container Material	ABS		
Rated Capacity	1000Ah	10Hour Rate	(100A to 1.80V)
	750Ah	3Hour Rate	(250A to 1.80V)
	500Ah	1Hour Rate	(500A to 1.80V)
Internal resistance	Full charged at 25°C: 0.38 mΩ		
Max. Discharge Current	5000A(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. 200.0A ; Recom.100.0A		
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)

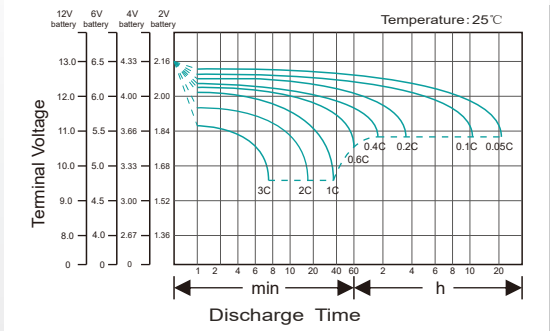
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1040	817	594	371	267	213	180.7	158.9	128.2	104.9
1.65V	980	777	559	361	262	208	178.7	156.9	127.2	104.4
1.70V	926	743	549	351	257	207	176.2	154.4	125.7	104.0
1.75V	866	703	515	342	252	203	173.3	151.5	123.3	102.5
1.80V	807	658	500	332	250	198	170.0	147.5	120.3	100.0
1.85V	743	599	460	312	238	193	164.0	142.6	116.8	98.0

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

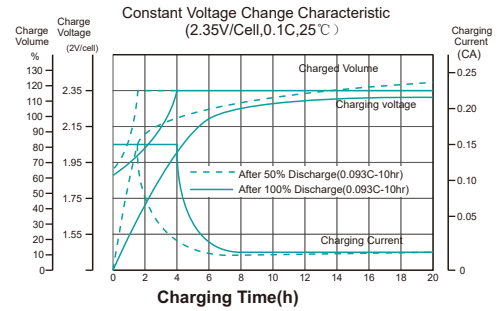
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1792	1436	1084	693	505	403.4	343.0	302.4	245.0	201.0
1.65V	1713	1361	1020	678	497	395.5	340.1	299.5	243.5	200.5
1.70V	1619	1307	1005	663	490	394.5	336.6	295.5	241.6	200.0
1.75V	1530	1252	960	648	483	388.6	332.1	291.1	237.6	198.0
1.80V	1445	1203	921	634	475	380.7	325.7	284.1	232.2	192.6
1.85V	1341	1109	876	599	460	374.7	318.8	277.7	227.7	191.6

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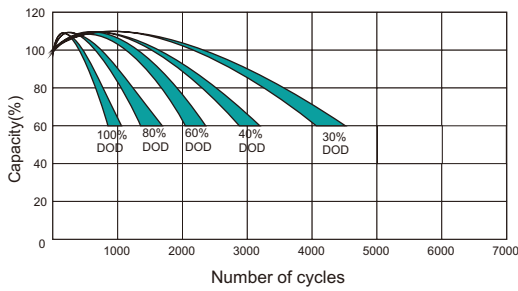
Discharge Characteristics Curve



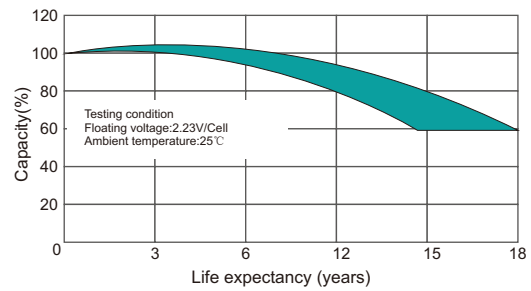
Charging Characteristics Curve



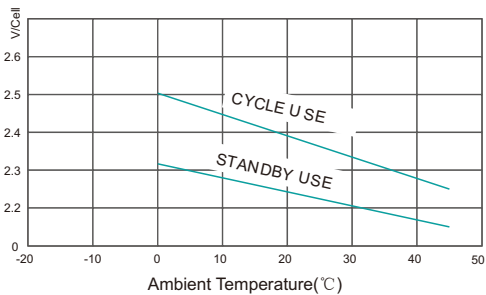
Cycle life of Different DOD



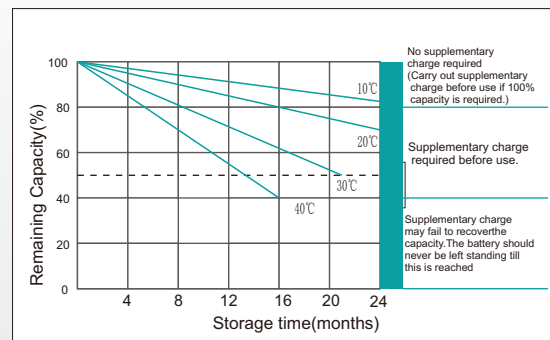
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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