

OPzV2-800

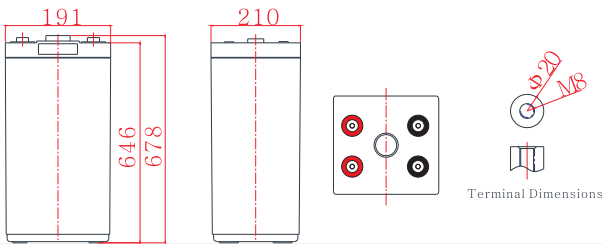


General Features

- > 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



尺寸Dimension: 191(L)×210(W)×646(H)×678(TH) 单位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	800Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 63.5kg (140lbs)		
Container Material	ABS		
Rated Capacity	800Ah	10Hour Rate	(80.0A to 1.80V)
	606Ah	3Hour Rate	(202A to 1.80V)
	444Ah	1Hour Rate	(444A to 1.75V)
Internal resistance	Full charged at 25°C: 0.40 mΩ		
Max. Discharge Current	4000A(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. 160.0A ; Recom.80.0A		
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)

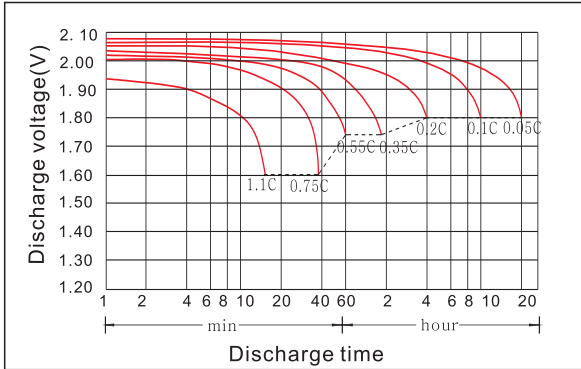
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	876	700	484	299	214	147	104	84.8	45.6
1.65V	832	668	476	293	212	145	102	84.4	45.2
1.70V	792	624	460	286	208	142	100	82.8	44.4
1.75V	748	584	444	278	205	139	99.2	81.6	43.6
1.80V	672	536	416	269	202	136	97.2	80.0	42.8
1.85V	568	476	389	259	194	131	94.4	78.4	41.6

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

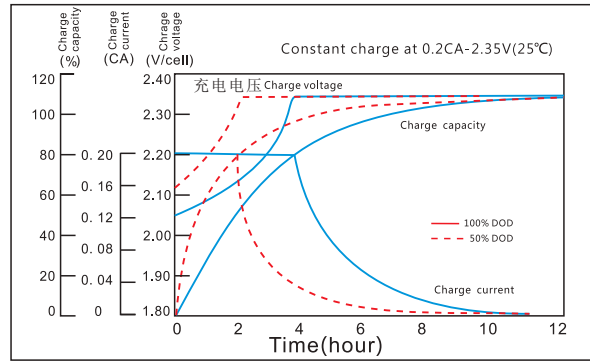
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1748	1388	940	588	452	302	216	179	96.0
1.65V	1664	1320	892	580	440	298	212	172	94.0
1.70V	1592	1264	868	568	428	291	208	171	91.6
1.75V	1508	1208	836	552	416	284	203	168	89.6
1.80V	1432	1164	840	536	404	275	198	164	87.6
1.85V	1312	1100	768	508	384	262	190	159	84.8

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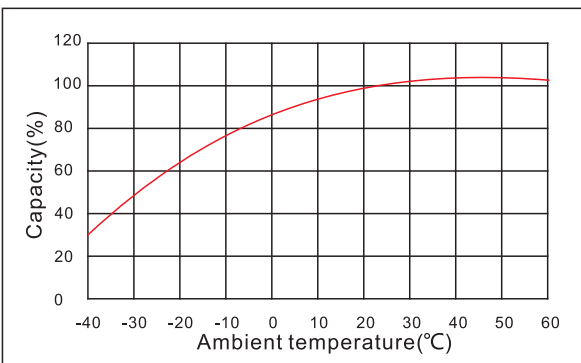
Discharge characteristic



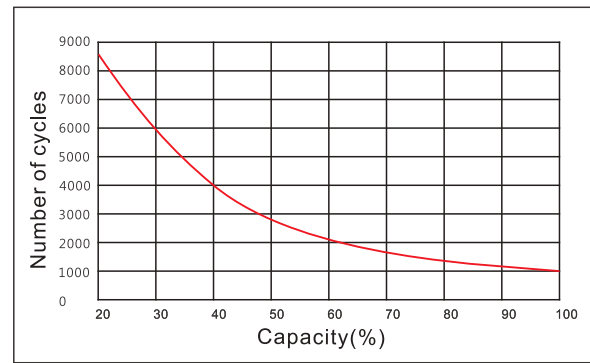
Charging characteristic



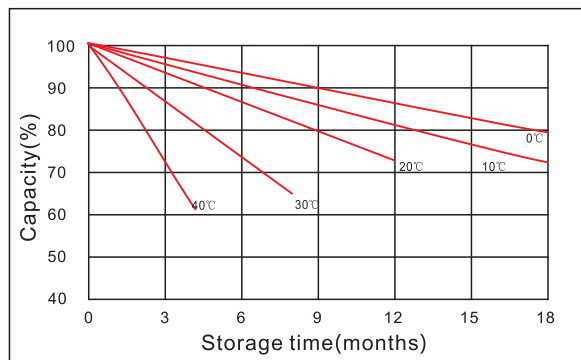
The effect of temperature on capacity



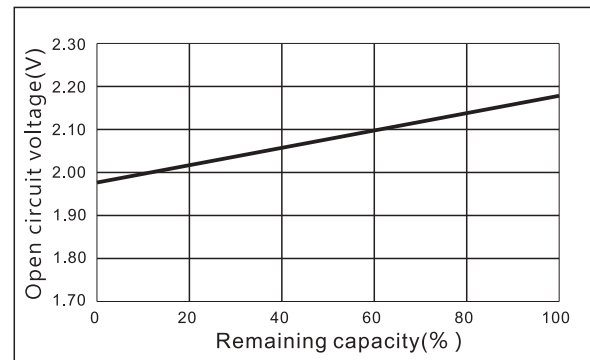
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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