

OPzS2-2000

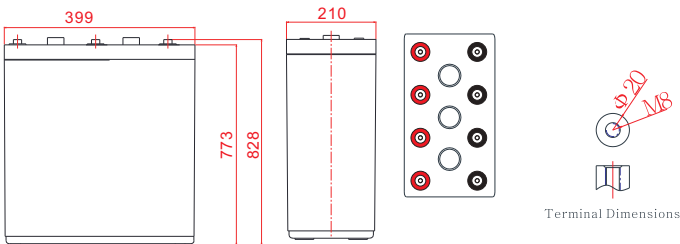


General Features

- > 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: 399(L)×210(W)×773(H)×828(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	2000Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 150kg (331lbs)(Dry cell 119.5Kg)	
Container Material	ABS	
Rated Capacity	2000Ah	10Hour Rate (200A to 1.80V)
	1503Ah	3Hour Rate (501A to 1.80V)
	1115Ah	1Hour Rate (1115A to 1.75V)
Internal resistance	Full charged at 25°C: 0.14 mΩ	
Max. Discharge Current	12800A(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.400A ; Recom.200A	
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)

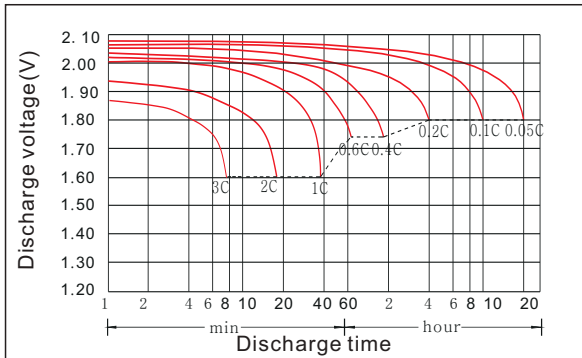
F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	2527	1769	1212	756	527	375	269	225	131
1.65V	2438	1711	1183	741	519	371	266	222	129
1.70V	2297	1640	1148	703	511	365	265	220	128
1.75V	2178	1578	1115	687	507	361	258	218	126
1.80V	1916	1444	1061	678	501	351	252	211	124
1.85V	1618	1216	986	642	497	340	246	209	120

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

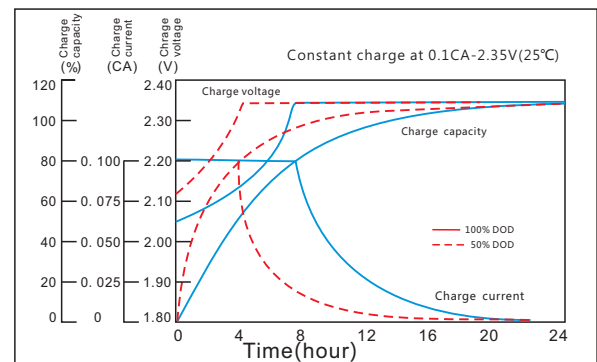
F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	5050	3582	2742	1514	1179	776	563	476	248
1.65V	4811	3393	2551	1503	1166	771	560	472	246
1.70V	4580	3238	2389	1482	1143	760	552	466	244
1.75V	4343	3108	2248	1440	1121	733	542	457	242
1.80V	4071	2984	2121	1390	1098	699	517	434	240
1.85V	3806	2867	2078	1338	1086	680	504	415	234

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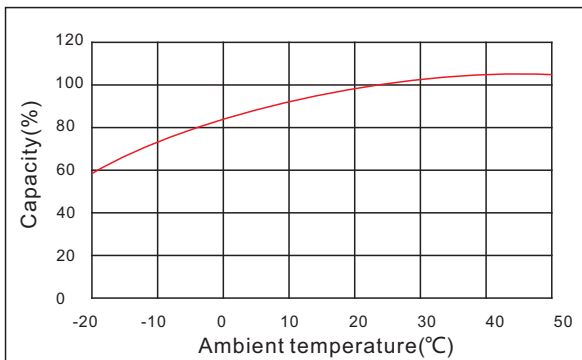
Discharge characteristic



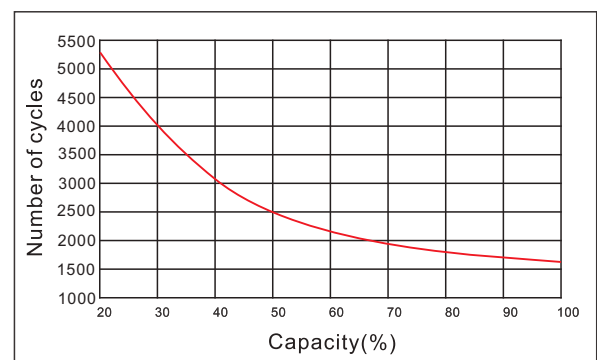
Charging characteristic



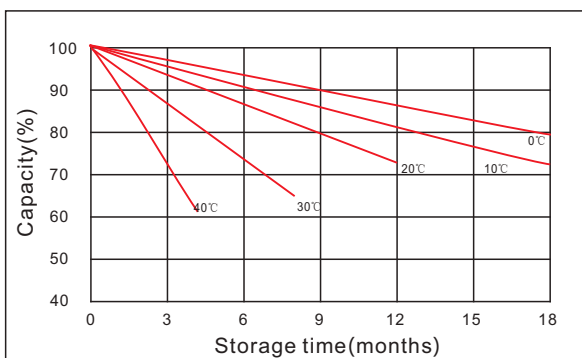
The effect of temperature on capacity



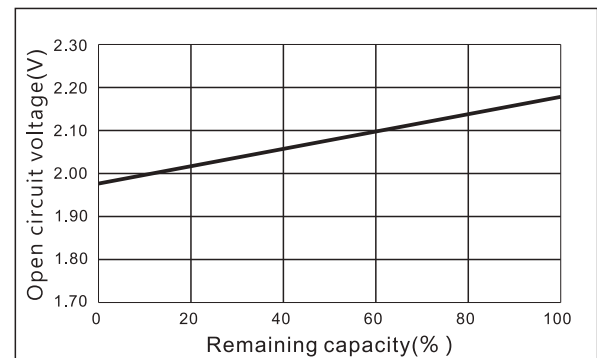
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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