

OPzV2-500

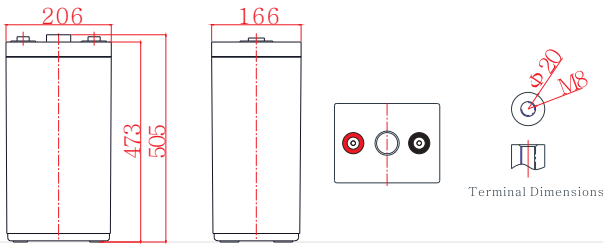


General Features

- › 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: 166(L)×206(W)×473(H)×505(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	500Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 38.1kg (84.1lbs)		
Container Material	ABS		
Rated Capacity	500Ah	10Hour Rate	(50.0A to 1.80V)
	378Ah	3Hour Rate	(126A to 1.80V)
	278Ah	1Hour Rate	(278A to 1.75V)
Internal resistance	Full charged at 25°C: 0.50 mΩ		
Max. Discharge Current	2500A(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. 100.0A ; Recom.50.0A		
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)

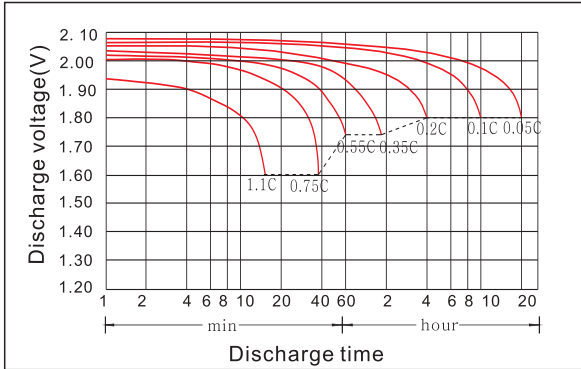
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	548	438	303	187	134	92.0	64.8	53.0	28.5
1.65V	520	418	298	183	132	90.8	63.8	52.8	28.3
1.70V	495	390	288	179	130	89.0	62.8	51.8	27.8
1.75V	468	365	278	174	128	87.0	62.0	51.0	27.3
1.80V	420	335	260	168	126	84.8	60.8	50.0	26.8
1.85V	355	298	243	162	121	81.8	59.0	49.0	26.0

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

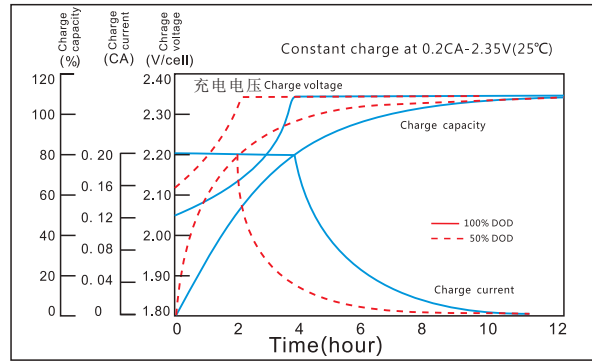
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1093	868	588	368	283	189	135	112	60.0
1.65V	1040	825	558	363	275	186	133	107	58.8
1.70V	995	790	543	355	268	182	130	107	57.3
1.75V	943	755	523	345	260	177	127	105	56.0
1.80V	895	728	525	335	253	172	124	102	54.8
1.85V	820	688	480	318	240	164	119	99.3	53.0

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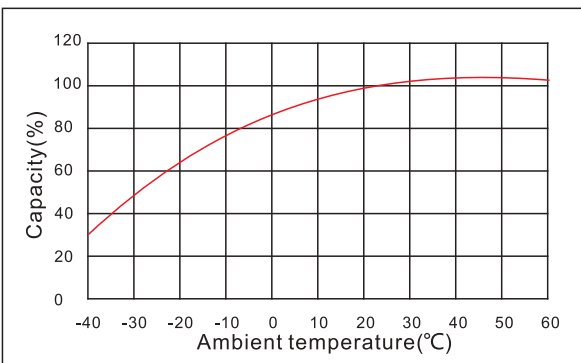
Discharge characteristic



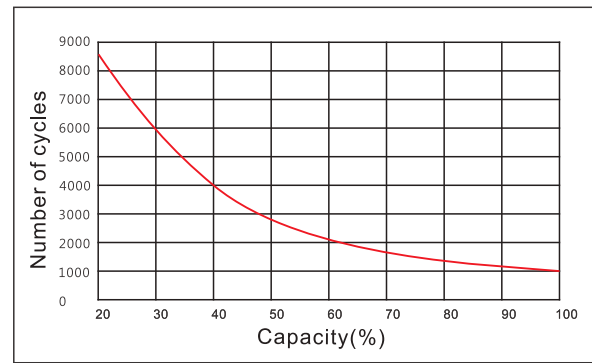
Charging characteristic



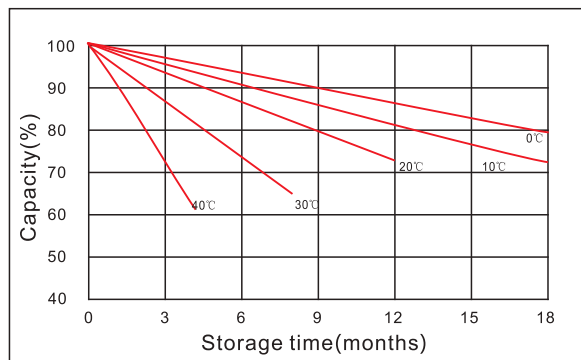
The effect of temperature on capacity



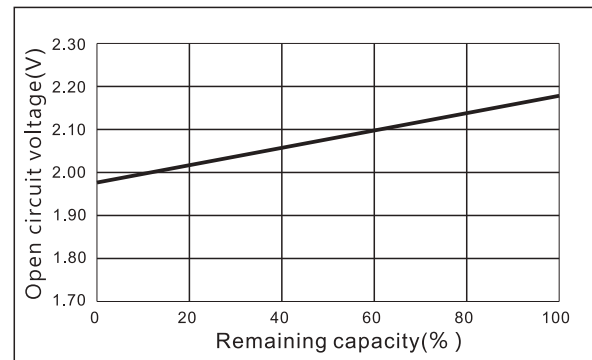
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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