

OPzV2-500



Applications

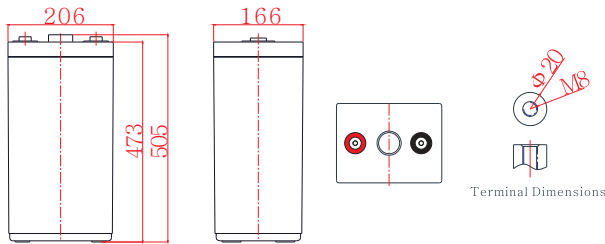
- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

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



Specification

Nominal Voltage	2V		
Nominal Capacity	500Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 38.5kg (84.9lbs)		
Container Material	ABS		
Rated Capacity	500Ah	10Hour Rate	(50.0A to 1.80V)
	375Ah	3Hour Rate	(125A to 1.80V)
	250Ah	1Hour Rate	(250A to 1.80V)
Internal resistance	Full charged at 25°C: 0.50 mΩ		
Max. Discharge Current	2500A(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. 100.0A ; Recom.50.0A		
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)

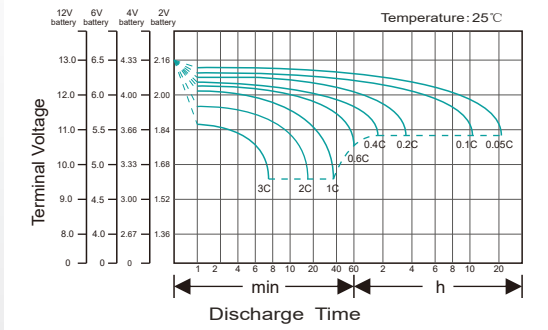
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	520	408	297	186	134	106	90.3	79.4	64.1	52.5
1.65V	490	389	280	181	131	104	89.3	78.5	63.6	52.2
1.70V	463	371	275	176	129	103	88.1	77.2	62.9	52.0
1.75V	433	351	257	171	126	101	86.6	75.7	61.6	51.2
1.80V	403	329	250	166	125	99	85.0	73.8	60.1	50.0
1.85V	371	299	230	156	119	97	81.9	71.3	58.4	49.0

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

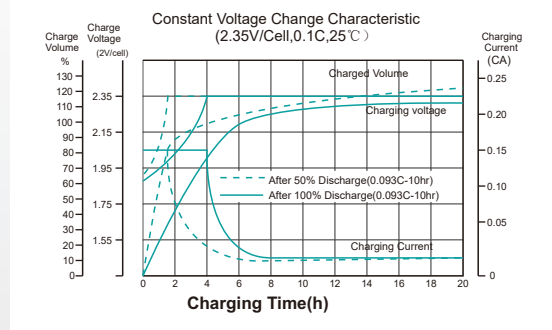
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	896	718	542	347	252	201.7	171.5	151.2	122.5	100.5
1.65V	856	681	510	339	249	197.8	170.0	149.7	121.8	100.2
1.70V	809	653	502	332	245	197.3	168.3	147.8	120.8	100.0
1.75V	765	626	480	324	241	194.3	166.1	145.5	118.8	99.0
1.80V	723	601	460	317	238	190.3	162.9	142.1	116.1	96.3
1.85V	671	554	438	299	230	187.4	159.4	138.8	113.9	95.8

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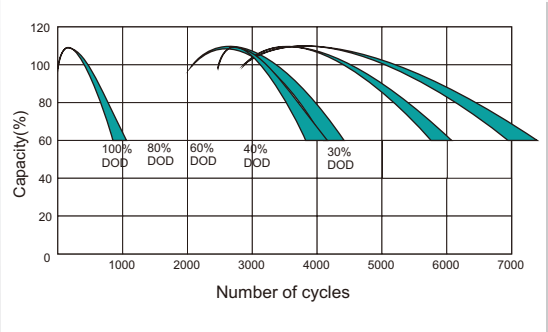
Discharge Characteristics Curve



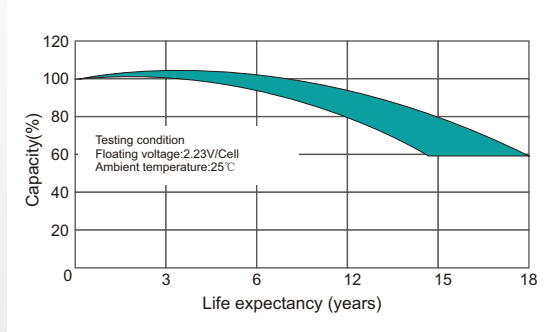
Charging Characteristics Curve



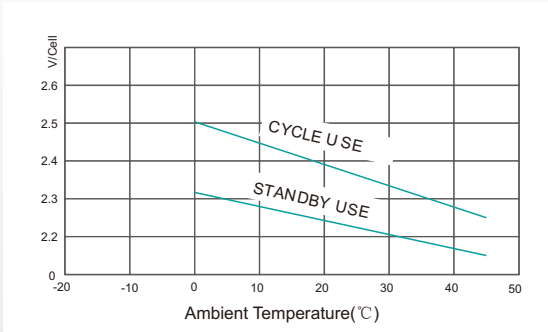
Cycle life of Different DOD



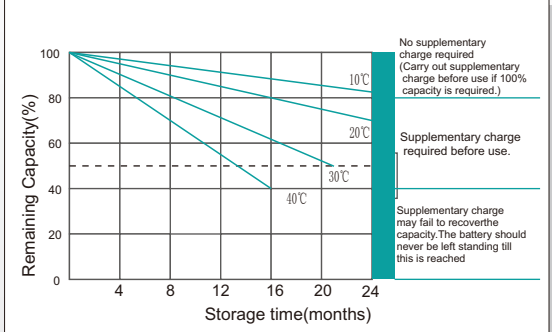
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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