

OPzV2-200

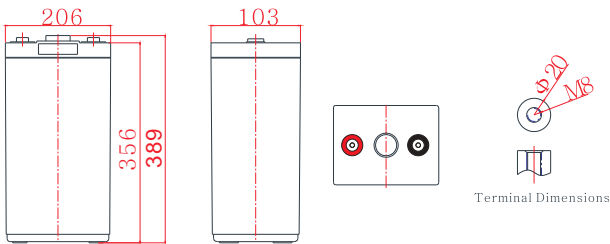


General Features

- › 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: 103(L)×206(W)×356(H)×389(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	200Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 18.5kg (40.8lbs)	
Container Material	ABS	
Rated Capacity	200Ah	10Hour Rate (20A to 1.80V)
	150Ah	3Hour Rate (50A to 1.80V)
	100Ah	1Hour Rate (100A to 1.80V)
Internal resistance	Full charged at 25°C: 0.85 mΩ	
Max. Discharge Current	1000A(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. 40.0A ; Recom.20.0A	
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)

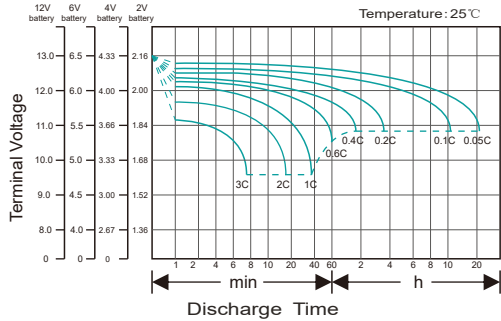
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	208	163	119	74	53	43	36.1	31.8	25.6	21.0
1.65V	196	155	112	72	52	42	35.7	31.4	25.4	20.9
1.70V	185	149	110	70	51	41	35.2	30.9	25.1	20.8
1.75V	173	141	103	68	50	41	34.7	30.3	24.7	20.5
1.80V	161	132	100	66	50	40	34.0	29.5	24.1	20.0
1.85V	149	120	92	62	48	39	32.8	28.5	23.4	19.6

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

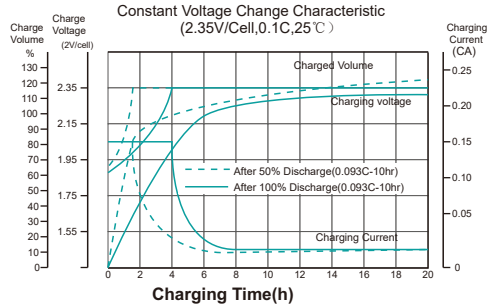
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	358	287	217	139	101	80.7	68.6	60.5	49.0	40.2
1.65V	343	272	204	136	99	79.1	68.0	59.9	48.7	40.1
1.70V	324	261	201	133	98	78.9	67.3	59.1	48.3	40.0
1.75V	306	250	192	130	97	77.7	66.4	58.2	47.5	39.6
1.80V	289	241	184	127	95	76.1	65.1	56.8	46.4	38.5
1.85V	268	222	175	120	92	74.9	63.8	55.5	45.5	38.3

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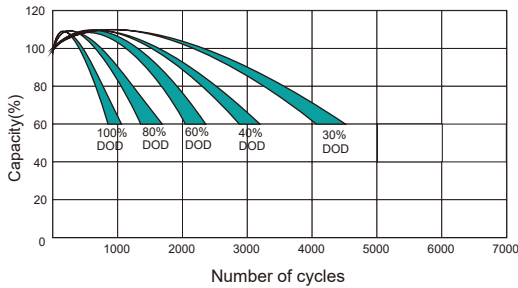
Discharge Characteristics Curve



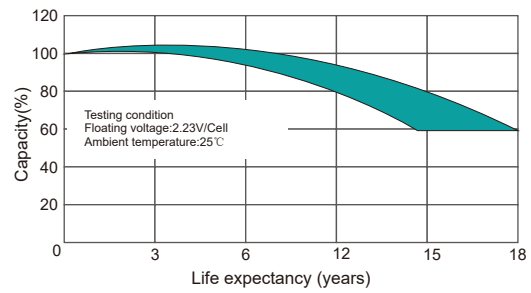
Charging Characteristics Curve



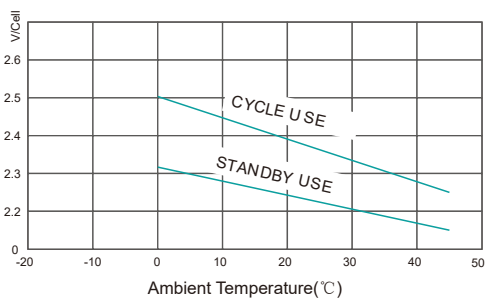
Cycle life of Different DOD



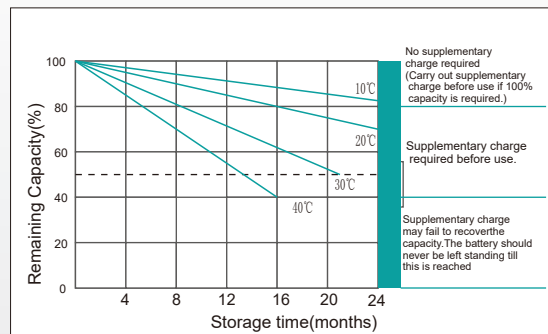
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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