

## OPzS2-250

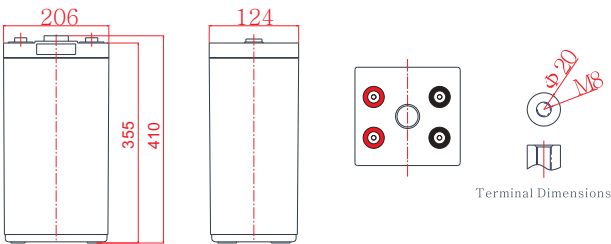


### General Features

- > 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: 206(L) x 124(W) x 355(H) x 410(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	250Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 20.5kg (45.2lbs) Dry cell 15.1Kg	
Container Material	SAN transparent container	
Rated Capacity	264.1Ah	10Hour Rate (26.41A to 1.80V)
	225.5Ah	5Hour Rate (45.1A to 1.75V)
	151.5Ah	1Hour Rate (151.5A to 1.60V)
Internal resistance	Full charged at 25°C: 0.7 mΩ	
Max. Discharge Current	3000A(5S)	
Operating Temperature	Discharge: -20 ~55°C(-4 ~ 131°F)	
	Charge: -10 ~45°C(14 ~ 113°F)	
	Storage: -15 ~45°C(5 ~ 113°F)	
Charge current:	Max.160A ; Recom.80A	
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)

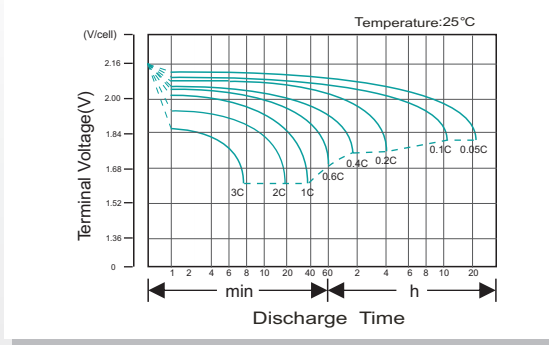
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	211	144	90	65	52	45	39	31.9	26.5	11.80	6.53
1.65V	204	141	88	64	51	44	39	31.7	26.4	11.80	6.48
1.70V	195	137	86	63	50	43	38	31.3	26.3	11.68	6.43
1.75V	188	133	84	61	49	43	38	30.7	25.9	11.48	6.35
1.80V	172	126	81	60	48	42	37	29.9	25.1	11.20	6.23
1.85V	153	117	76	58	47	40	35	29.1	24.8	10.85	5.93
1.95V	123	94	67	52	44	38	33	26.4	22.3	9.95	5.55

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

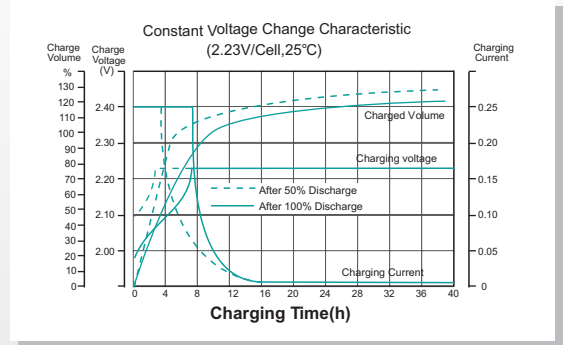
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	384	266	166	120	96	83	73	59.3	49.3	22.03	12.38
1.65V	375	260	163	118	95	82	72	58.8	49.1	21.98	12.33
1.70V	360	253	159	117	94	81	71	58.1	48.8	21.73	12.23
1.75V	348	247	156	114	92	80	70	57.3	48.4	21.55	12.18
1.80V	321	238	152	114	92	79	69	56.8	47.3	21.28	12.05
1.85V	290	223	146	111	90	78	68	55.8	47.5	21.03	11.70
1.95V	243	185	132	103	87	75	65	52.4	44.3	20.08	11.38

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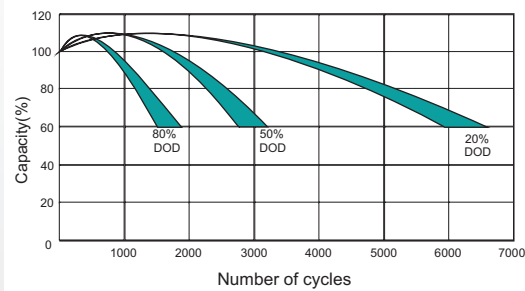
### Discharge Characteristics Curve



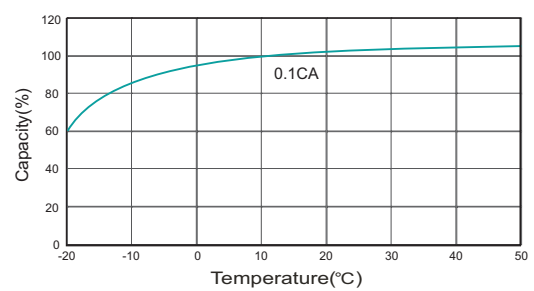
### Charging Characteristics Curve



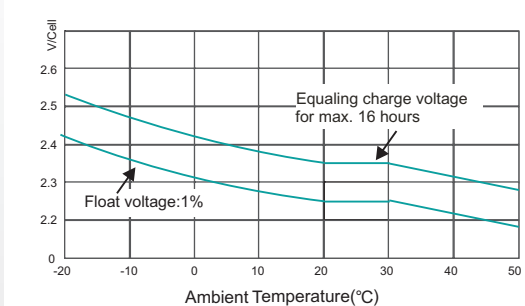
### Cycle life in relation to depth of Discharge



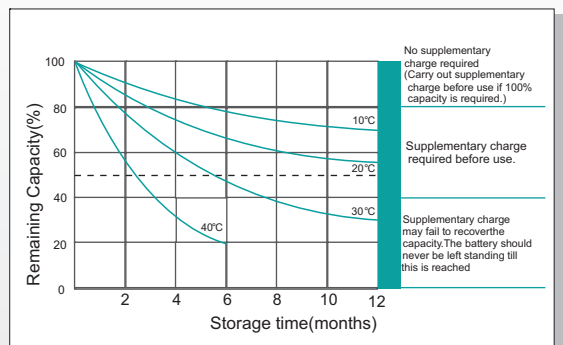
### Temperature effects on Capacity



### Relationship between charging voltage and temperature



### Self-discharge Characteristics



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