

OPzS2-200



Applications

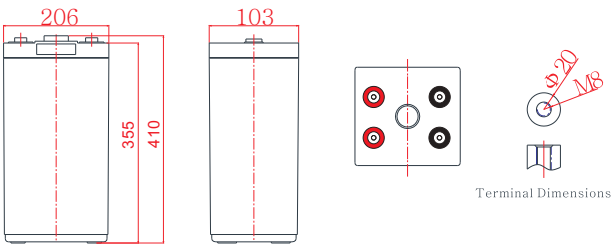
- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

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: 206(L) x 103(W) x 355(H) x 410(TH) Unit: mm



Specification

Nominal Voltage	2V	
Nominal Capacity	200Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 17.5kg (38.6lbs) Dry cell 12.8Kg	
Container Material	SAN transparent container	
Rated Capacity	211.3Ah	10Hour Rate (21.13A to 1.80V)
	180.4Ah	5Hour Rate (36.08A to 1.75V)
	121.2Ah	1Hour Rate (121.2A to 1.60V)
Internal resistance	Full charged at 25°C: 0.9 mΩ	
Max. Discharge Current	2400A(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)

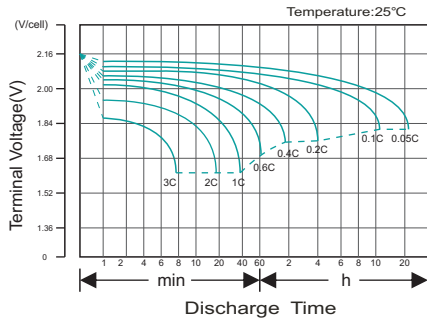
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	169	115	72	52	41	36	31	25.5	21.2	9.44	5.22
1.65V	163	113	71	51	41	35	31	25.3	21.1	9.44	5.18
1.70V	156	109	69	50	40	35	31	25.0	21.0	9.34	5.14
1.75V	150	106	67	49	40	34	30	24.6	20.7	9.18	5.08
1.80V	137	101	65	48	39	33	29	23.9	20.1	8.96	4.98
1.85V	122	94	61	47	38	32	28	23.3	19.8	8.68	4.74
1.95V	99	75	53	42	35	30	26	21.1	17.8	7.96	4.44

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

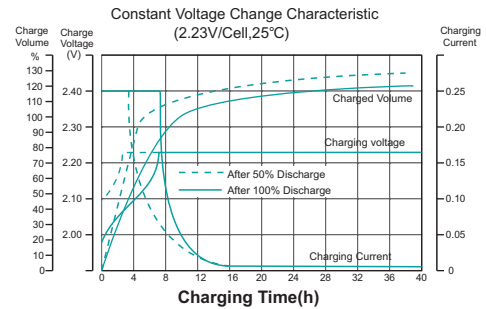
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	307	213	133	96	77	66	58	47.4	39.4	17.62	9.90
1.65V	300	208	130	95	76	65	58	47.1	39.3	17.58	9.86
1.70V	288	202	127	93	75	64	57	46.4	39.1	17.38	9.78
1.75V	278	197	125	91	74	64	56	45.8	38.7	17.24	9.74
1.80V	257	190	122	91	73	63	55	45.5	37.8	17.02	9.64
1.85V	232	178	116	89	72	62	54	44.6	38.0	16.82	9.36
1.95V	195	148	105	82	69	60	52	41.9	35.5	16.06	9.10

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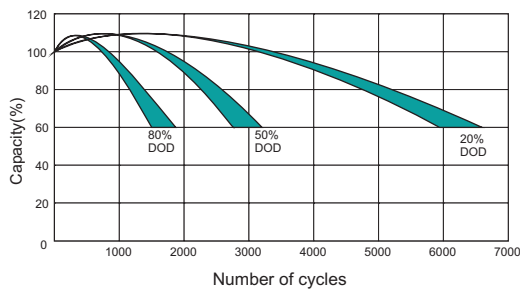
Discharge Characteristics Curve



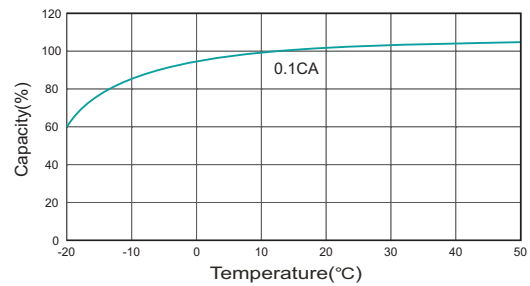
Charging Characteristics Curve



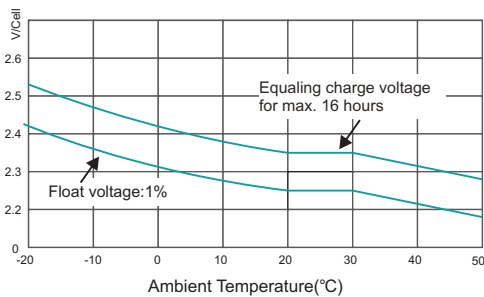
Cycle life in relation to depth of Discharge



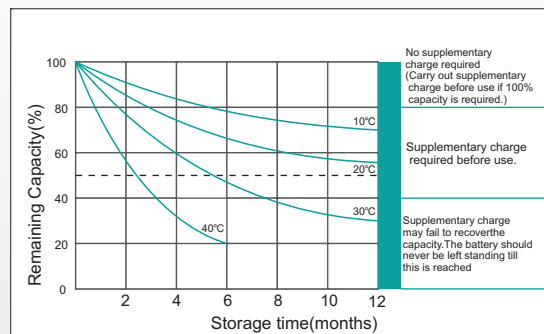
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



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