

OPzS2-350

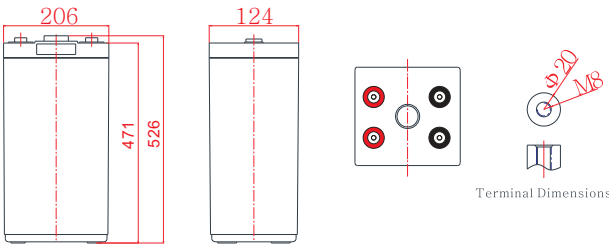


General Features

- > 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 471(H) x 526(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	350Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 27kg (59.5lbs) Dry cell 19.8Kg	
Container Material	SAN transparent container	
Rated Capacity	369.7Ah	10Hour Rate (36.97A to 1.80V)
	315.7Ah	5Hour Rate (63.14A to 1.75V)
	212.0Ah	1Hour Rate (212.0A to 1.60V)
Internal resistance	Full charged at 25°C: 0.6 mΩ	
Max. Discharge Current	3400A(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)

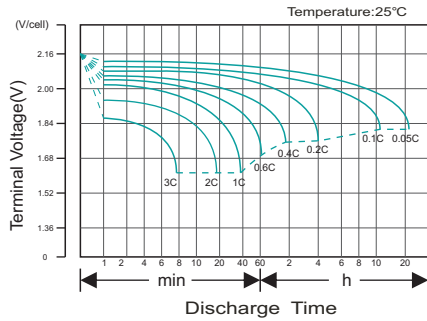
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	295	202	126	91	72	62	55	44.6	37.1	16.52	9.14
1.65V	285	197	123	89	72	62	54	44.3	36.9	16.52	9.07
1.70V	273	191	120	88	71	61	54	43.8	36.8	16.35	9.00
1.75V	263	186	117	86	69	60	53	43.0	36.2	16.07	8.89
1.80V	241	177	113	84	68	58	51	41.9	35.1	15.68	8.72
1.85V	214	164	107	81	66	57	49	40.7	34.7	15.19	8.30
1.95V	173	131	93	73	61	53	46	36.9	31.2	13.93	7.77

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

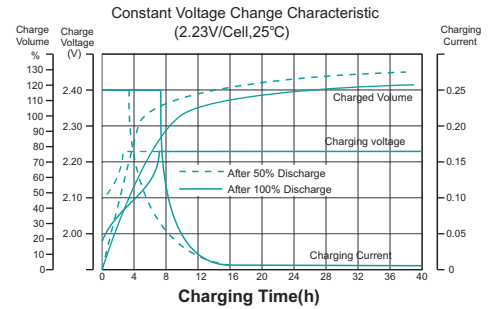
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	538	372	232	168	134	116	102	83.0	69.0	30.84	17.33
1.65V	525	364	228	166	133	114	101	82.4	68.7	30.77	17.26
1.70V	504	354	223	163	131	113	99	81.3	68.4	30.42	17.12
1.75V	487	345	218	160	129	111	98	80.2	67.7	30.17	17.05
1.80V	449	333	213	159	128	111	97	79.6	66.2	29.79	16.87
1.85V	406	312	204	156	126	109	95	78.1	66.5	29.44	16.38
1.95V	341	259	184	144	121	104	91	73.3	62.1	28.11	15.93

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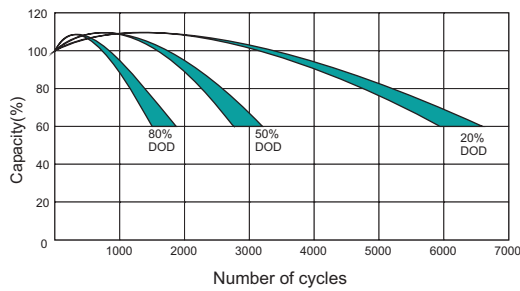
Discharge Characteristics Curve



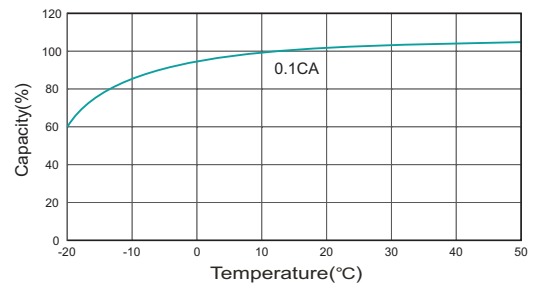
Charging Characteristics Curve



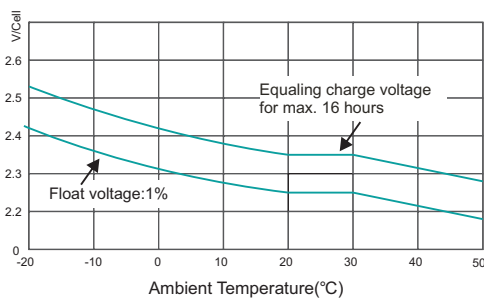
Cycle life in relation to depth of Discharge



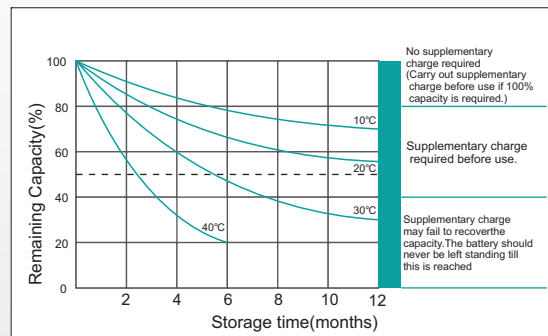
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



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