

OPzS2-300



Applications

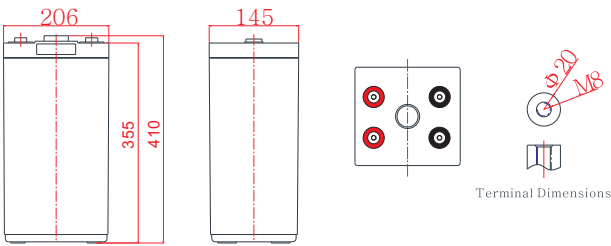
- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

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 145(W) x 355(H) x 410(TH) Unit: mm



Specification

Nominal Voltage	2V	
Nominal Capacity	300Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 24.0kg (52.9lbs) Dry cell 17.5Kg	
Container Material	SAN transparent container	
Rated Capacity	316.9Ah	10Hour Rate (31.69A to 1.80V)
	270.6Ah	5Hour Rate (54.12A to 1.75V)
	181.8Ah	1Hour Rate (181.8A to 1.60V)
Internal resistance	Full charged at 25°C: 0.56 mΩ	
Max. Discharge Current	3600A(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)

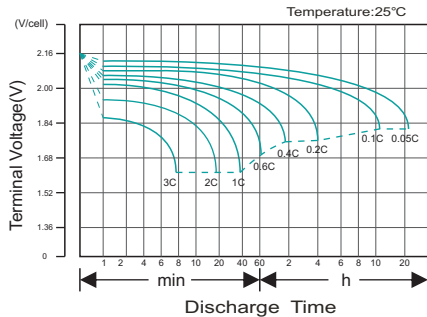
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	253	173	108	78	62	53	47	38.3	31.8	14.16	7.83
1.65V	244	169	106	77	61	53	47	38.0	31.7	14.16	7.77
1.70V	234	164	103	75	61	52	46	37.5	31.5	14.01	7.71
1.75V	225	159	101	74	59	51	45	36.8	31.1	13.77	7.62
1.80V	206	152	97	72	58	50	44	35.9	30.1	13.44	7.47
1.85V	183	141	92	70	56	48	42	34.9	29.7	13.02	7.11
1.95V	148	113	80	62	53	45	39	31.7	26.7	11.94	6.66

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

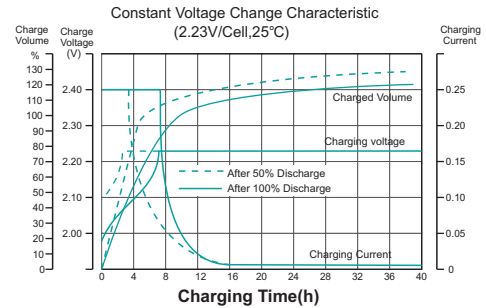
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	461	319	199	144	115	99	88	71.1	59.2	26.43	14.85
1.65V	450	312	195	142	114	98	86	70.6	58.9	26.37	14.79
1.70V	432	303	191	140	113	97	85	69.7	58.6	26.07	14.67
1.75V	417	296	187	137	111	95	84	68.7	58.1	25.86	14.61
1.80V	385	285	182	136	110	95	83	68.2	56.8	25.53	14.46
1.85V	348	267	175	134	108	93	81	67.0	57.0	25.23	14.04
1.95V	292	222	158	123	104	89	78	62.8	53.2	24.09	13.65

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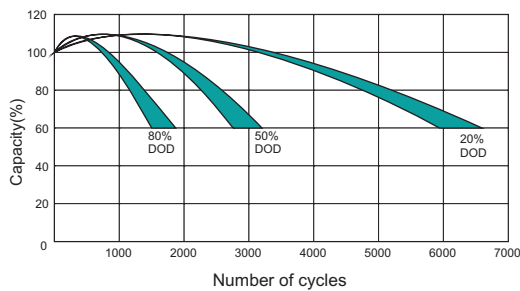
Discharge Characteristics Curve



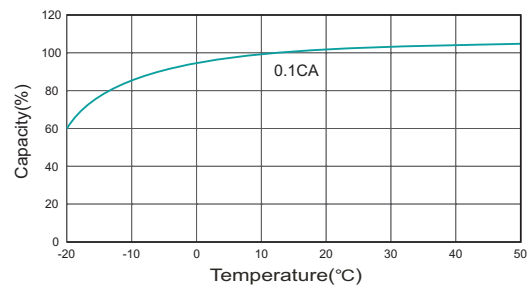
Charging Characteristics Curve



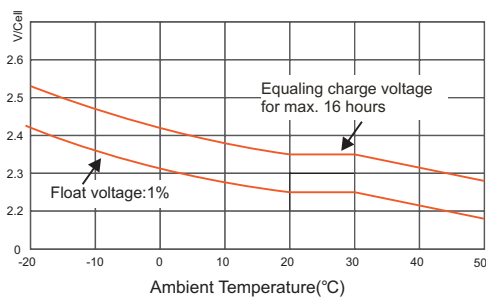
Cycle life in relation to depth of Discharge



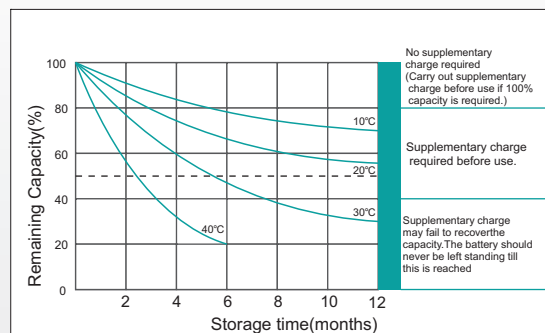
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



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