

OPzS2-420



Applications

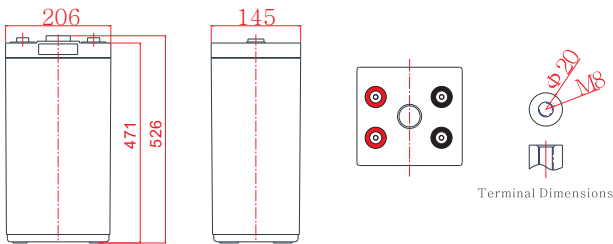
- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

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 471(H) x 526(TH) Unit: mm



Specification

Nominal Voltage	2V	
Nominal Capacity	420Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 32kg (70.6lbs) Dry cell 23Kg	
Container Material	SAN transparent container	
Rated Capacity	422.5Ah	10Hour Rate (42.25A to 1.80V)
	360.8Ah	5Hour Rate (72.16A to 1.75V)
	242.3Ah	1Hour Rate (242.3A to 1.60V)
Internal resistance	Full charged at 25°C: 0.5 m Ω	
Max. Discharge Current	4075A(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)

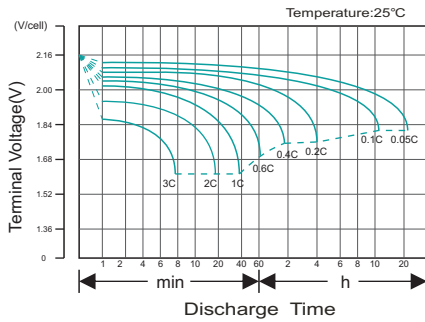
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	354	242	151	109	87	75	66	53.6	44.6	19.82	10.96
1.65V	342	237	148	107	86	74	65	53.2	44.3	19.82	10.88
1.70V	328	230	144	106	85	73	64	52.5	44.1	19.61	10.79
1.75V	316	223	141	103	83	72	63	51.6	43.5	19.28	10.67
1.80V	289	212	135	101	81	70	61	50.3	42.1	18.82	10.46
1.85V	256	197	128	98	79	68	59	48.8	41.6	18.23	9.95
1.95V	207	158	112	87	74	63	55	44.3	37.4	16.72	9.32

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

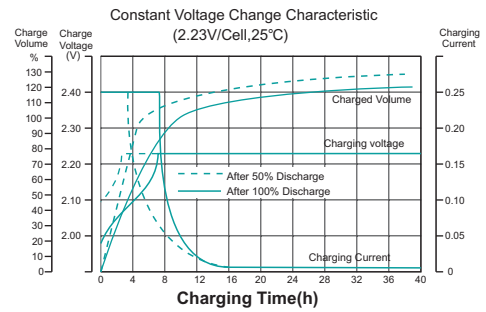
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	645	446	279	202	161	139	123	99.6	82.8	37.00	20.79
1.65V	630	437	273	199	159	137	121	98.8	82.5	36.92	20.71
1.70V	605	424	267	196	158	135	119	97.5	82.0	36.50	20.54
1.75V	584	414	262	192	155	134	118	96.2	81.3	36.20	20.45
1.80V	539	399	255	191	154	133	116	95.5	79.5	35.74	20.24
1.85V	487	374	244	187	151	130	114	93.7	79.8	35.32	19.66
1.95V	409	311	221	173	146	125	109	87.9	74.5	33.73	19.11

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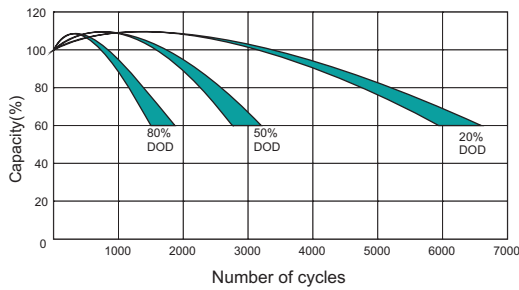
Discharge Characteristics Curve



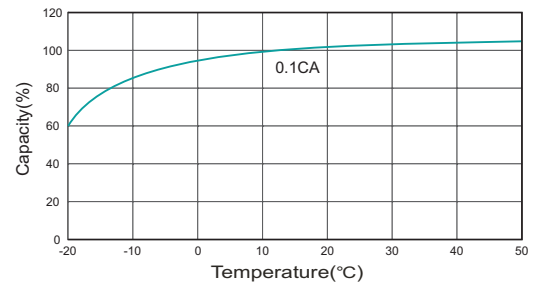
Charging Characteristics Curve



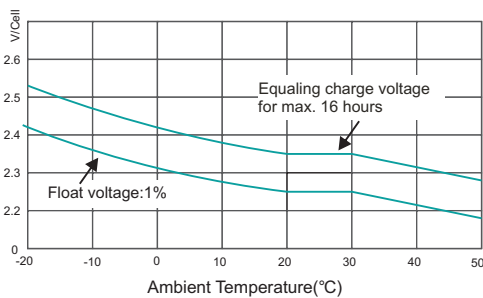
Cycle life in relation to depth of Discharge



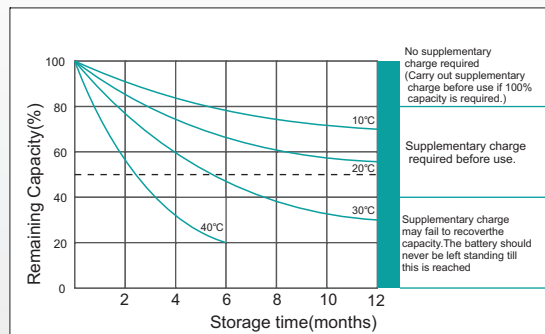
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



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