

OPzS2-490

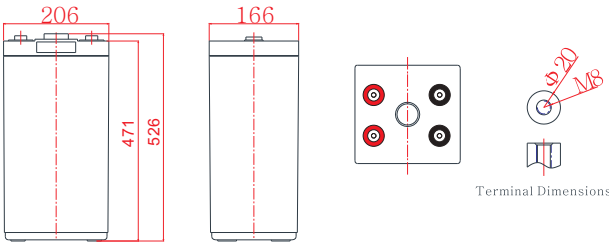


General Features

- > 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 166(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	490Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 38kg (83.8lbs) Dry cell 26.2Kg	
Container Material	SAN transparent container	
Rated Capacity	500.0Ah	10Hour Rate (50.0A to 1.80V)
	415.0Ah	5Hour Rate (83.0A to 1.75V)
	286.8Ah	1Hour Rate (286.8A to 1.60V)
Internal resistance	Full charged at 25°C: 0.42 mΩ	
Max. Discharge Current	4750A(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)

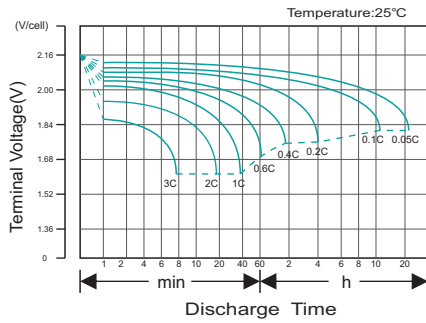
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	413	283	176	127	101	87	77	62.5	52.0	23.13	12.79
1.65V	399	276	173	125	100	86	76	62.0	51.7	23.13	12.69
1.70V	382	268	169	123	99	85	75	61.3	51.5	22.88	12.59
1.75V	368	260	164	120	97	84	74	60.2	50.7	22.49	12.45
1.80V	337	248	158	118	95	82	72	58.7	49.1	21.95	12.20
1.85V	299	230	149	114	92	79	69	57.0	48.5	21.27	11.61
1.95V	242	184	130	102	86	74	64	51.7	43.6	19.50	10.88

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

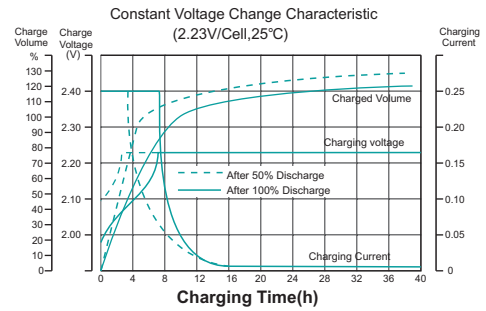
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	753	521	325	235	188	162	143	116.2	96.6	43.17	24.26
1.65V	735	510	319	232	186	160	141	115.3	96.2	43.07	24.16
1.70V	706	495	312	229	184	158	139	113.8	95.7	42.58	23.96
1.75V	681	483	305	224	181	156	137	112.3	94.8	42.24	23.86
1.80V	629	466	298	222	180	155	136	111.4	92.7	41.70	23.62
1.85V	568	436	285	218	176	152	133	109.4	93.1	41.21	22.93
1.95V	477	363	258	201	170	146	127	102.6	86.9	39.35	22.30

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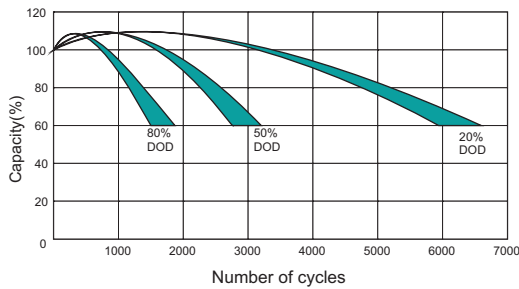
Discharge Characteristics Curve



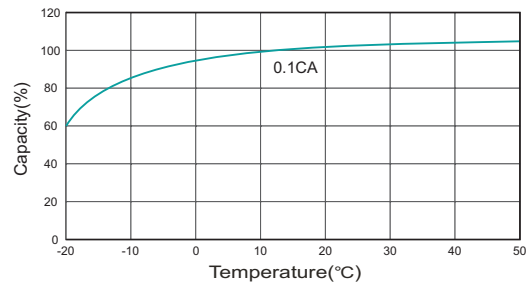
Charging Characteristics Curve



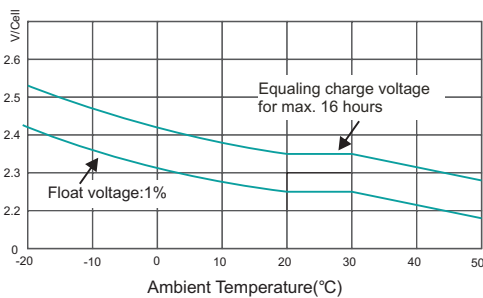
Cycle life in relation to depth of Discharge



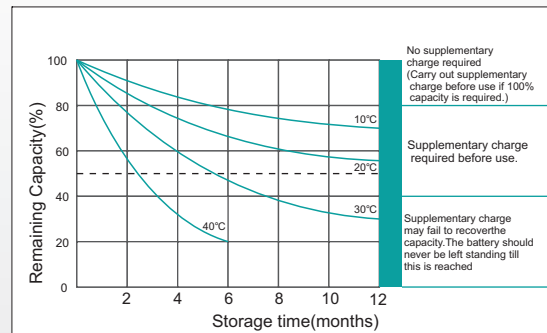
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



www.kijo.com.cn info@kijo.com.cn

Jiangxi Jingjiu Power Science & Technology Co. Ltd.
Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang City, Jiangxi Province, China.

+86-791-85982779 +86-791-85989842

Jiangxi Jingjiu Power (Jiujiang) Co. Ltd.
Add: Xiwang Rd, Aicheng Industrial Park, Yongxiu Country, Jiujiang City, Jiangxi Province, China.

