

OPZV2-300

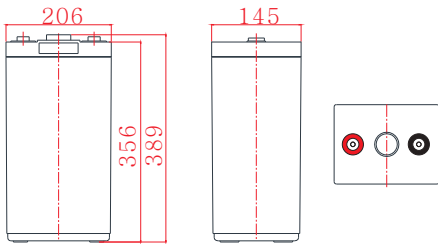


General Features

- > Nanosilica colloidal electrolyte and 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: 145(L)×206(W)×356(H)×389(TH) Unit: mm



Terminal Dimensions

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	300Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 26.5kg (58.4lbs)	
Container Material	ABS	
Rated Capacity	300Ah	10Hour Rate (30.0A to 1.80V)
	227Ah	3Hour Rate (75.6A to 1.80V)
	167Ah	1Hour Rate (167A to 1.75V)
Internal resistance	Full charged at 25°C: 0.62 mΩ	
Max. Discharge Current	2400A(5S)	
Operating Temperature	Discharge: -40 ~60°C(-40~ 140°F)	
	Charge: -20 ~50°C(-4~ 122°F)	
	Storage: -20 ~50°C(-4~ 122°F)	
Charge current:	Max.60A ; Recom.30A	
Charge Method (25 °C)	Float Charge:2.23-2.27V,recom.2.25V(-3mV/ °C)	
	Equalize charge:2.30-2.35V,recom.2.35V(-4mV/ °C)	
	Cycle charge:2.40-2.50V,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)

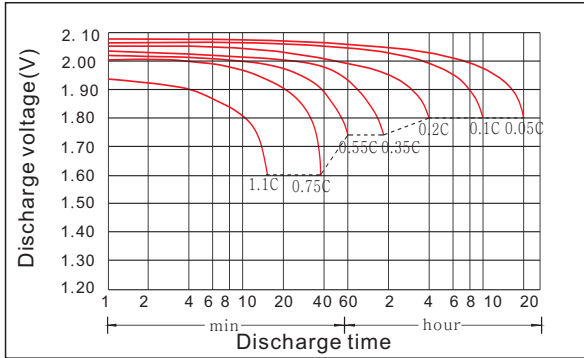
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	328	262	182	112	80.4	55.2	38.8	31.8	17.0
1.65V	313	250	179	110	79.4	54.4	38.2	31.6	16.9
1.70V	297	235	172	107	78.2	53.4	37.6	31.0	16.6
1.75V	280	219	167	104	77.0	52.2	37.2	30.6	16.4
1.80V	252	201	156	101	75.6	50.8	36.4	30.0	16.0
1.85V	213	179	146	97.0	72.6	49.0	35.4	29.4	15.6

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

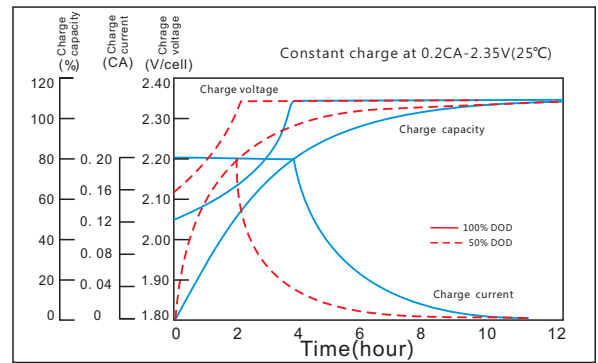
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	655	520	353	220	169	113	81.0	67.2	36.0
1.65V	625	495	335	217	165	112	79.6	64.4	35.2
1.70V	597	474	325	213	160	109	78.0	64.2	34.4
1.75V	565	453	314	208	156	106	76.2	63.0	33.6
1.80V	537	436	315	201	151	103	74.2	61.4	32.8
1.85V	493	413	289	191	144	98	71.4	59.6	31.8

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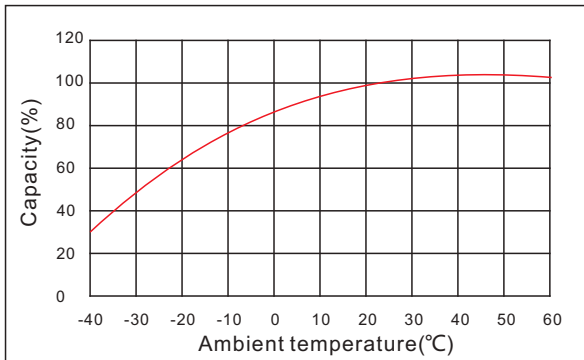
Discharge characteristic



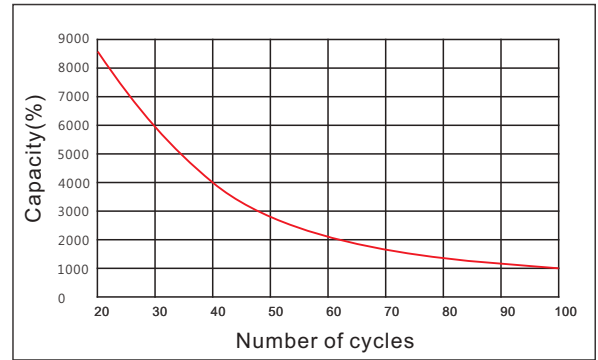
Charging characteristic



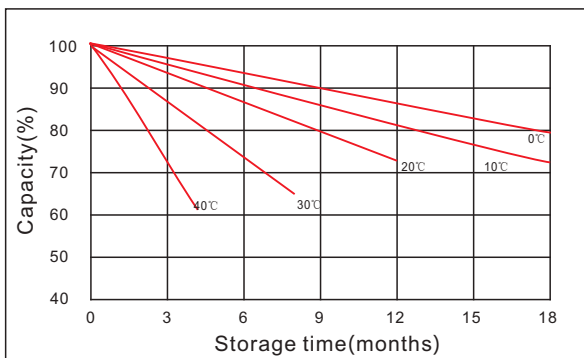
The effect of temperature on capacity



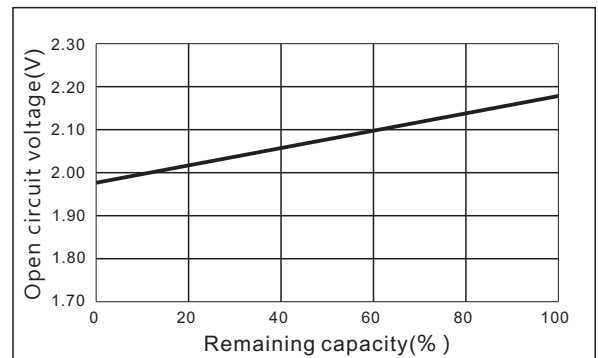
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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.

