

OPzV2-600

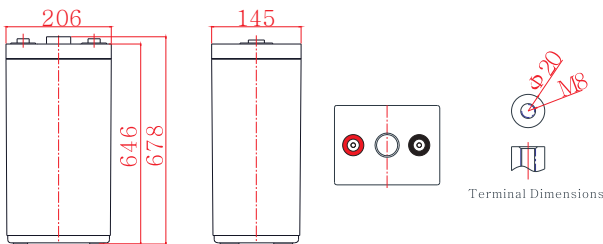


General Features

- › 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: 145(L)×206(W)×646(H)×678(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	600Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 47.0kg (103.6lbs)	
Container Material	ABS	
Rated Capacity	600Ah	10Hour Rate (60A to 1.80V)
	450Ah	3Hour Rate (150A to 1.80V)
	300Ah	1Hour Rate (300A to 1.80V)
Internal resistance	Full charged at 25°C: 0.42 mΩ	
Max. Discharge Current	3000A(5S)	
Operating Temperature	Discharge: -15~50°C(5~ 122°F)	
	Charge: -15~50°C(5~ 122°F)	
	Storage: -20~40°C(-4~ 104°F)	
Charge current:	Max. 70.0A ; Recom.35.0A	
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)

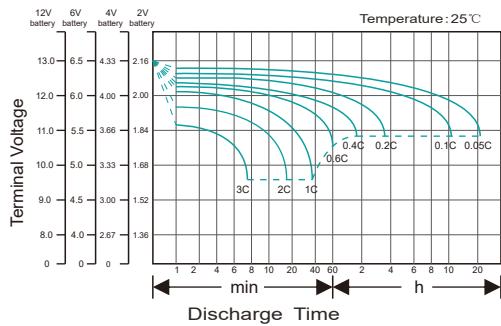
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	624	490	356	223	160	128	108	95.3	76.9	63.0
1.65V	588	466	336	217	157	125	107	94.1	76.3	62.7
1.70V	555	446	330	211	154	124	106	92.7	75.4	62.4
1.75V	520	422	309	205	151	122	104	90.9	74.0	61.5
1.80V	484	395	300	199	150	119	102	88.5	72.2	60.0
1.85V	446	359	276	187	143	116	98	85.5	70.1	58.8

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

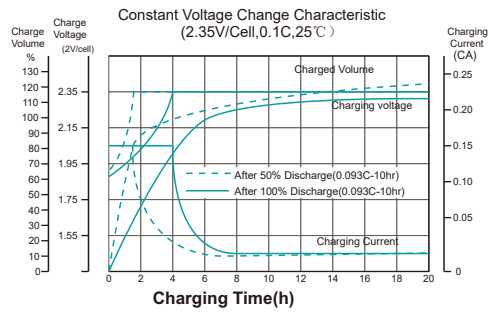
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1075	861	650	416	303	242	205.8	181.5	147.0	120.6
1.65V	1028	817	612	407	298	237	204.0	179.7	146.0	120.3
1.70V	971	784	603	398	294	236	202.0	177.3	145.0	120.0
1.75V	918	751	576	389	290	233	199.3	174.6	142.6	118.8
1.80V	867	722	552	380	285	228	195.4	170.5	139.3	115.5
1.85V	805	665	526	359	276	225	191.3	166.6	136.6	114.9

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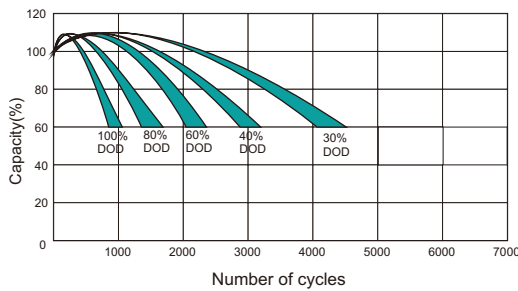
Discharge Characteristics Curve



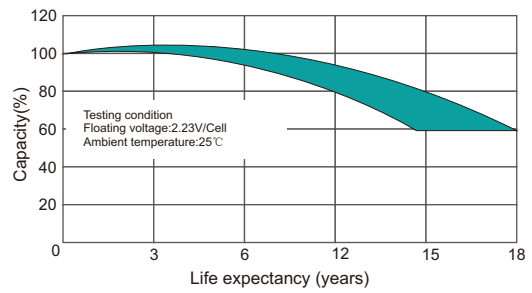
Charging Characteristics Curve



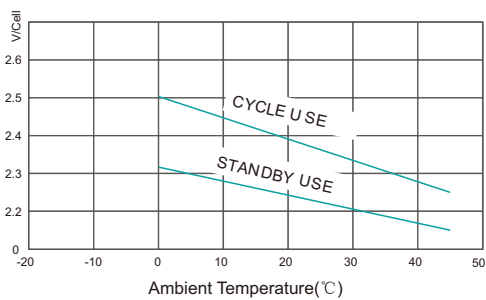
Cycle life of Different DOD



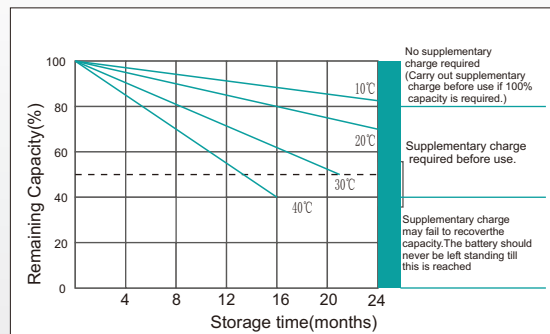
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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

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

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

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

