

OPzS2-600

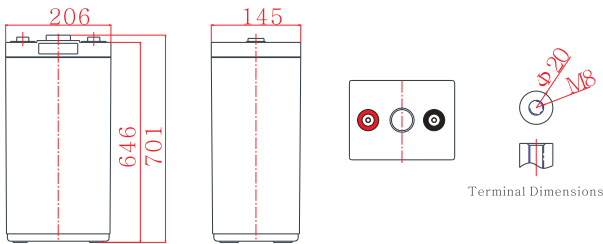


General Features

- > 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: 206 (L)×145 (W)×646(H)×701 (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 (104lbs) Dry cell 35.3Kg	
Container Material	ABS	
Rated Capacity	600Ah	10Hour Rate (60.0A to 1.80V)
	453Ah	3Hour Rate (151A to 1.80V)
	334Ah	1Hour Rate (334A to 1.75V)
Internal resistance	Full charged at 25°C: 0.41 mΩ	
Max. Discharge Current	5000A(5S)	
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)	
	Charge: -20 ~50°C(-4~ 122°F)	
	Storage: -20 ~50°C(-4~ 122°F)	
Charge current:	Max.120A ; Recom.60A	
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)

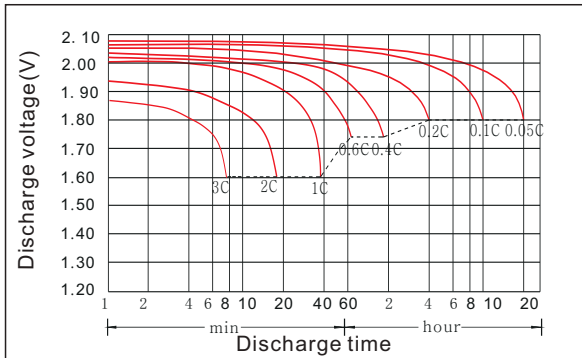
F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	758	530	363	226	163	112	80.7	67.4	39.3
1.65V	731	513	355	222	162	111	79.7	66.6	38.7
1.70V	689	491	344	210	158	109	79.3	66.2	38.3
1.75V	653	473	334	211	154	108	77.4	65.3	37.7
1.80V	574	433	318	203	151	105	75.6	63.3	37.2
1.85V	485	364	295	192	146	102	73.7	62.7	35.9

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

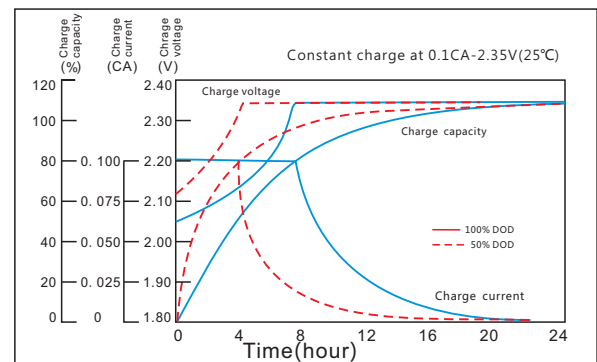
F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	1515	1075	822	454	344	232	168	142	74.5
1.65V	1443	1018	765	450	349	231	167	141	73.8
1.70V	1374	971	716	444	338	227	165	139	73.2
1.75V	1303	932	674	432	330	219	162	137	72.4
1.80V	1221	895	636	417	320	209	155	130	71.8
1.85V	1142	860	626	401	304	204	151	124	70.1

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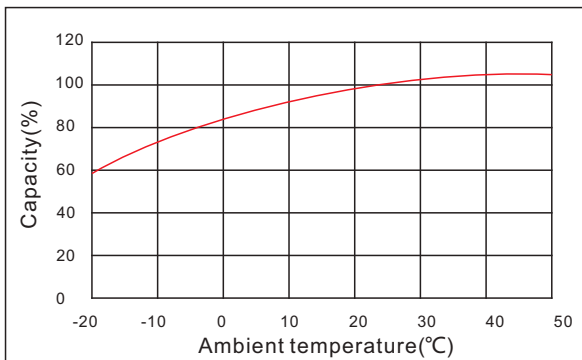
Discharge characteristic



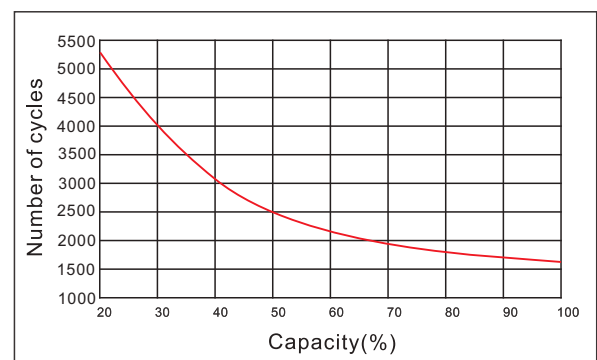
Charging characteristic



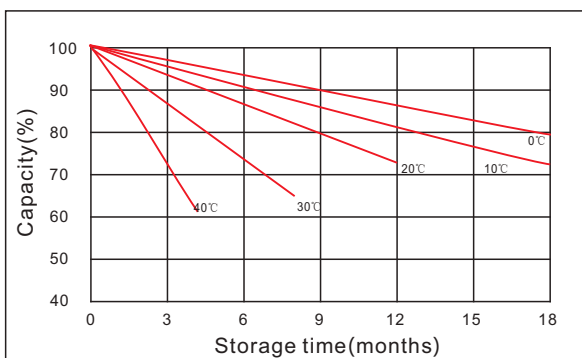
The effect of temperature on capacity



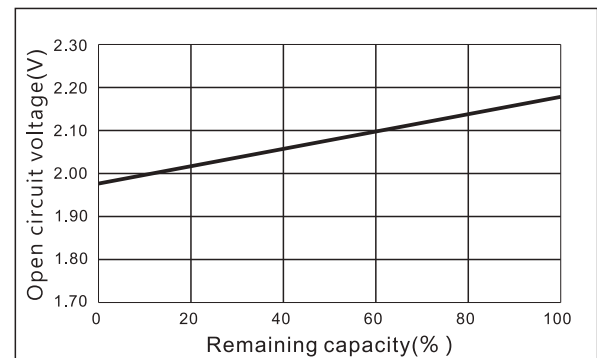
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



www.kiju.com.cn info@kiju.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.

