

## JDG2-1000

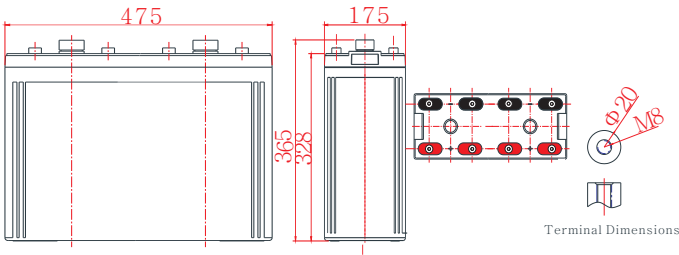


### General Features

- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- > 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
- > Long life



Dimension: 475(L)×175(W)×328(H)×365(TH) Unit: mm



### Applications

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

### Specification

Nominal Voltage	2V		
Nominal Capacity	1000Ah		
Design life	12 years		
Terminal	M8		
Approx. Weight	Approx63.0kg (139lbs)		
Container Material	ABS		
Rated Capacity	1000Ah	10Hour Rate	(100A to 1.80V)
	753Ah	3Hour Rate	(251A to 1.80V)
	564Ah	1Hour Rate	(564A to 1.75V)
Internal resistance	Full charged at 25°C: 0.22 mΩ		
Max. Discharge Current	10000A(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.200A ; Recom.100A		
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)

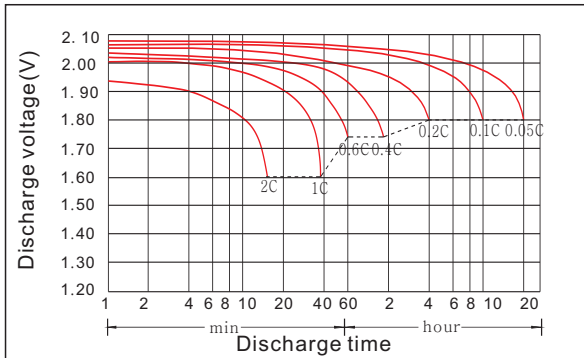
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1395	1033	653	385	282	190	129	108	57.8
1.65V	1300	969	620	376	275	185	127	107	57.3
1.70V	1219	910	592	362	267	184	125	105	56.5
1.75V	1154	846	564	349	259	179	124	104	55.6
1.80V	1088	791	528	330	251	175	121	100	53.4
1.85V	965	706	481	308	239	169	118	98.5	52.9

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

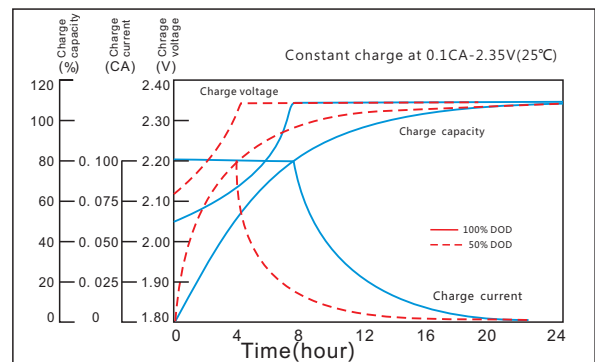
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	2371	1887	1346	808	593	402	272	228	122
1.65V	2275	1814	1244	783	572	389	268	223	120
1.70V	2194	1741	1184	753	550	382	262	216	116
1.75V	2112	1681	1138	726	529	372	252	213	114
1.80V	2013	1622	1072	692	511	361	246	210	112
1.85V	1833	1443	991	633	484	346	238	202	108

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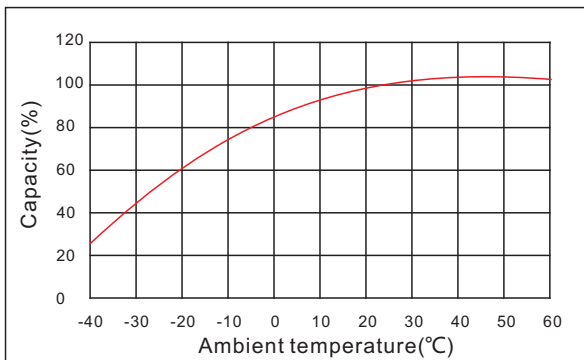
**Discharge characteristic**



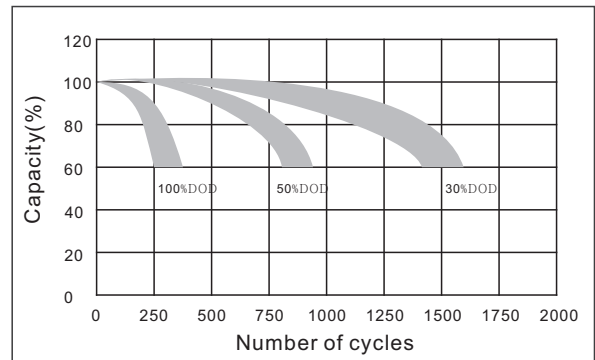
**Charging characteristic**



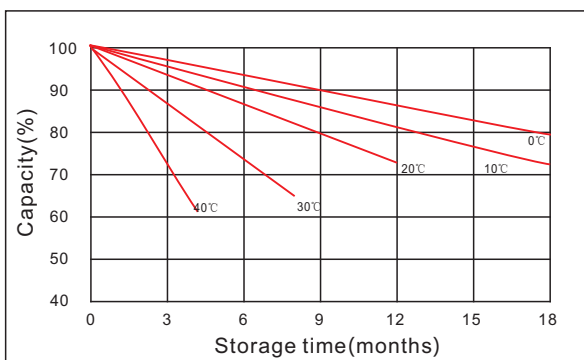
**The effect of temperature on capacity**



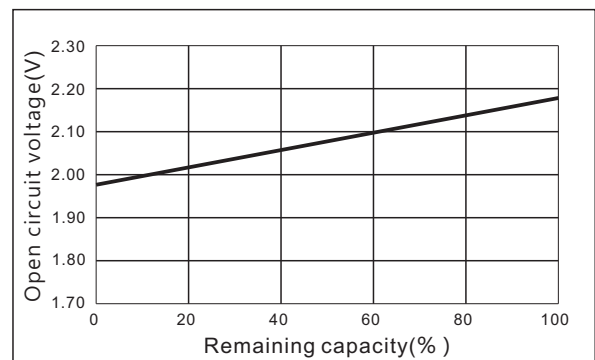
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**Curves of open circuit voltage vs. capacity**



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