

## OPzS2-1500

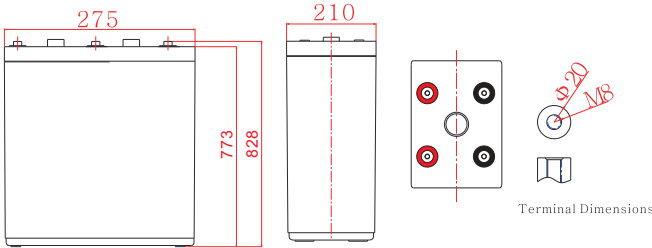


### General Features

- > 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: 275(L)×210(W)×773(H)×828(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	1500Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 112kg (247lbs) Dry cell 77.0Kg	
Container Material	ABS	
Rated Capacity	1500Ah	10Hour Rate (150A to 1.80V)
	1134Ah	3Hour Rate (378A to 1.80V)
	836Ah	1Hour Rate (836A to 1.75V)
Internal resistance	Full charged at 25°C: 0.20 mΩ	
Max. Discharge Current	9600A(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.300A ; Recom. 150A	
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)

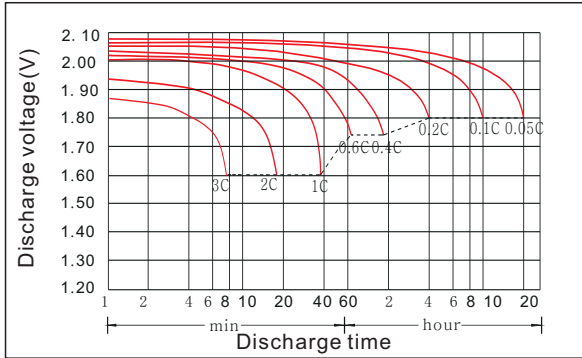
F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	1895	1327	908	566	409	281	201	168	98.2
1.65V	1828	1283	887	555	402	278	199	166	96.8
1.70V	1723	1230	861	527	396	273	198	165	95.7
1.75V	1623	1184	836	524	387	270	193	163	94.3
1.80V	1437	1083	795	508	378	263	189	158	93.0
1.85V	1214	911	739	481	366	255	184	156	89.9

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

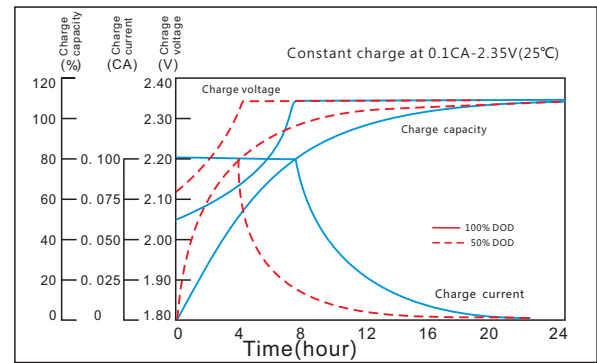
F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	3788	2687	2057	1136	882	582	422	357	186
1.65V	3608	2545	1913	1127	873	577	419	354	184
1.70V	3435	2428	1792	1112	845	569	413	349	183
1.75V	3257	2331	1686	1080	825	549	406	342	181
1.80V	3054	2238	1591	1043	801	524	387	325	179
1.85V	2854	2150	1566	1003	762	510	377	311	175

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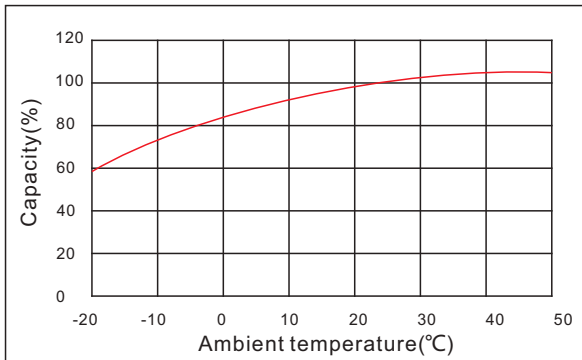
### Discharge characteristic



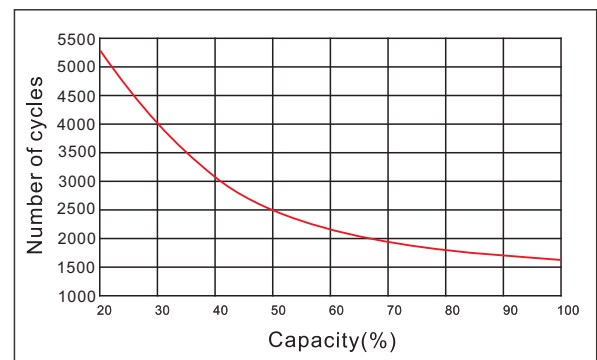
### Charging characteristic



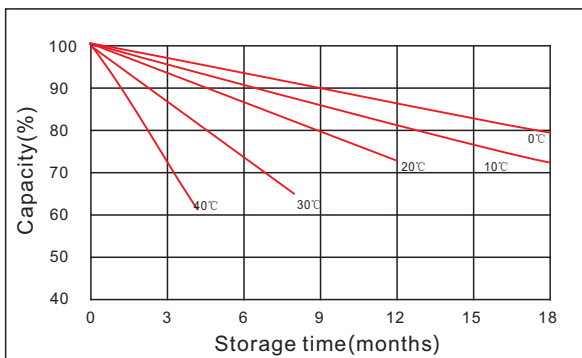
### The effect of temperature on capacity



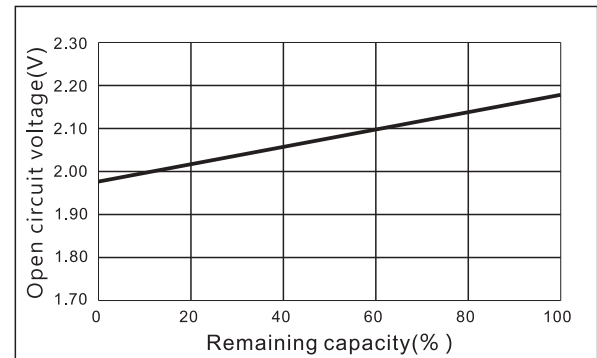
### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity



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