

## OPzS2-2500

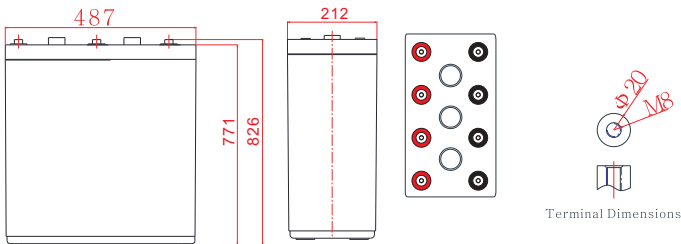


### General Features

- > 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: 487(L)×212(W)×771(H)×826(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	2500Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 204kg (450lbs) Dry cell 152Kg	
Container Material	ABS	
Rated Capacity	2500Ah	10Hour Rate (250A to 1.80V)
	1890Ah	3Hour Rate (630A to 1.80V)
	1393Ah	1Hour Rate (1393A to 1.75V)
Internal resistance	Full charged at 25°C: 0.12 mΩ	
Max. Discharge Current	16000A(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.500A ; Recom.250A	
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)

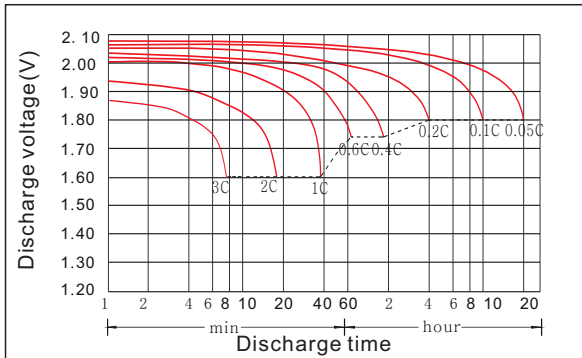
F. V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	3159	2212	1515	945	683	469	336	281	164
1.65V	3047	2139	1479	926	670	464	332	278	162
1.70V	2871	2050	1436	879	661	456	331	276	160
1.75V	2722	1973	1393	882	646	451	323	273	157
1.80V	2394	1850	1326	848	630	438	315	264	155
1.85V	2023	1520	1232	803	611	426	307	262	150

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

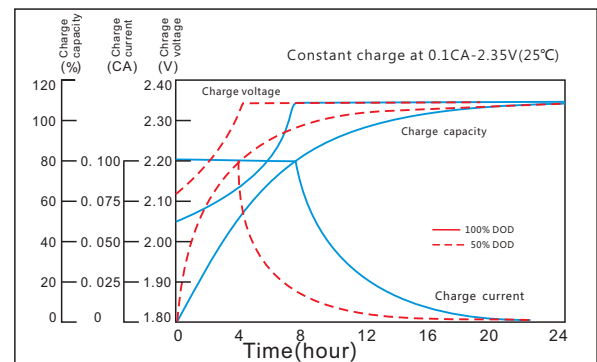
F. V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	6313	4478	3428	1893	1437	970	703	595	311
1.65V	6013	4241	3189	1878	1456	963	700	590	308
1.70V	5724	4047	2987	1853	1409	950	690	582	305
1.75V	5429	3885	2810	1800	1375	916	678	572	302
1.80V	5089	3730	2651	1738	1336	874	647	543	299
1.85V	4757	3583	2609	1672	1270	851	630	519	292

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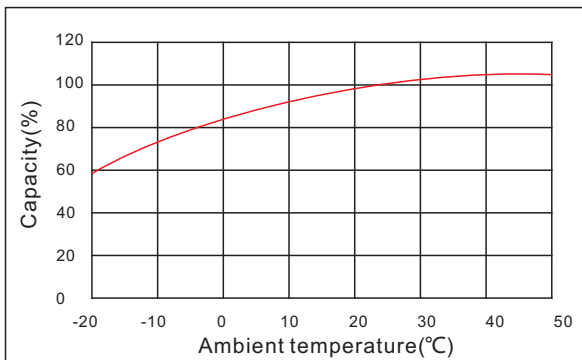
Discharge characteristic



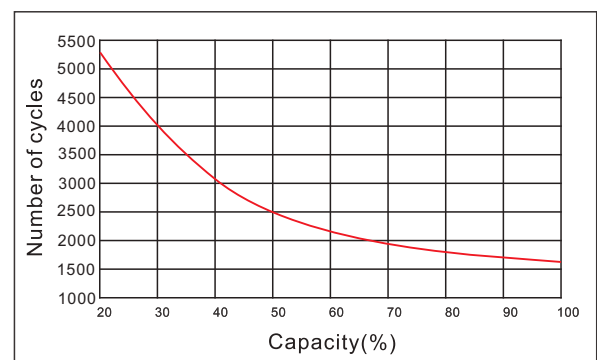
Charging characteristic



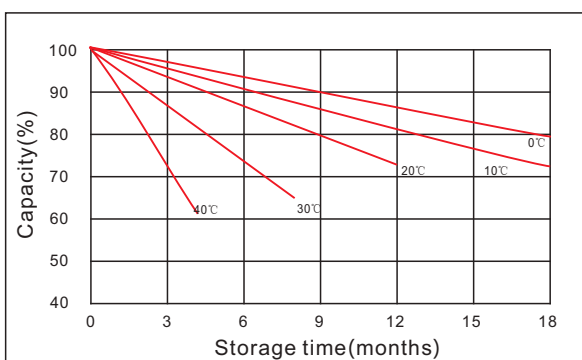
The effect of temperature on capacity



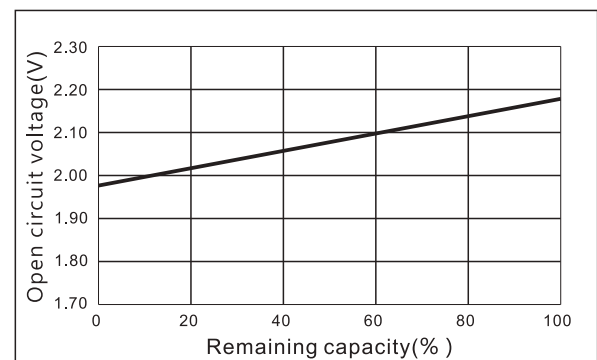
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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