

## OPzS2-2500

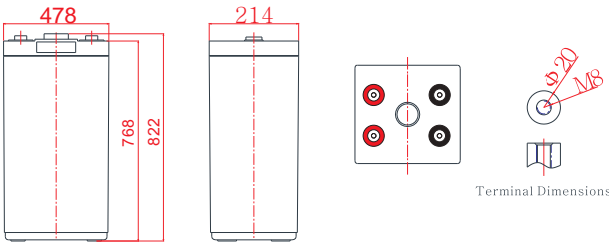


### General Features

- > 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: 478(L) x 214(W) x 768(H) x 822(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, Ø=20	
Approx. Weight	Approx 180kg (396.8lbs) Dry cell 130Kg	
Container Material	SAN transparent container	
Rated Capacity	2508Ah	10Hour Rate (250.8A to 1.80V)
	2135Ah	5Hour Rate (427.0A to 1.75V)
	1442Ah	1Hour Rate (1442A to 1.60V)
Internal resistance	Full charged at 25°C: 0.12 mΩ	
Max. Discharge Current	16000A(5S)	
Operating Temperature	Discharge: -20 ~55°C (-4 ~ 131°F)	
	Charge: -10 ~45°C (14 ~ 113°F)	
	Storage: -15 ~45°C (5 ~ 113°F)	
Charge current:	Max.160A ; Recom.80A	
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)

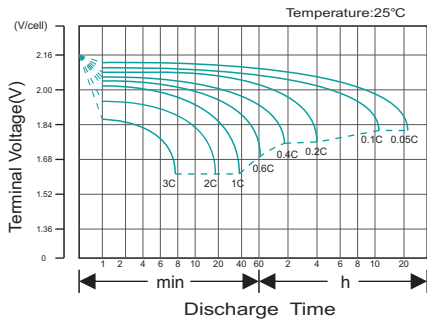
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	2106	1442	899	648	517	445	394	318.8	265.3	118.00	65.25
1.65V	2036	1409	882	638	512	441	389	316.5	263.8	118.00	64.75
1.70V	1951	1367	860	629	505	434	383	312.8	262.5	116.75	64.25
1.75V	1879	1326	838	614	495	427	375	307.0	258.8	114.75	63.50
1.80V	1719	1263	807	602	485	417	366	299.3	250.8	112.00	62.25
1.85V	1525	1173	763	582	470	404	353	290.8	247.5	108.50	59.25
1.95V	1234	938	665	519	438	376	326	263.8	222.5	99.50	55.50

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

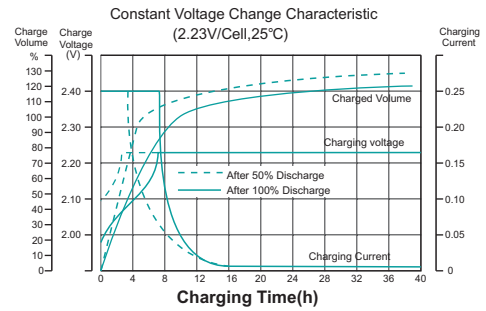
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	3840	2658	1660	1200	958	825	730	592.8	493.0	220.25	123.75
1.65V	3748	2600	1625	1183	948	818	720	588.3	491.0	219.75	123.25
1.70V	3600	2525	1590	1168	938	805	710	580.5	488.3	217.25	122.25
1.75V	3475	2465	1558	1143	923	795	700	572.8	483.8	215.50	121.75
1.80V	3208	2378	1520	1135	918	790	693	568.3	473.0	212.75	120.50
1.85V	2900	2225	1455	1113	900	775	678	558.0	475.3	210.25	117.00
1.95V	2433	1850	1315	1028	868	745	648	523.5	443.3	200.75	113.75

# OPzS2-2500

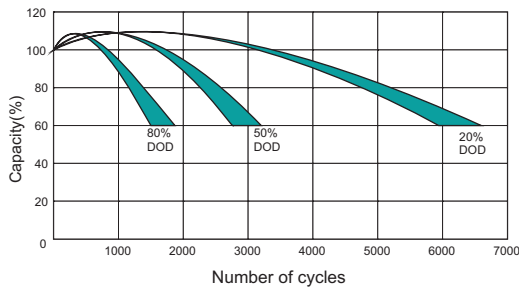
## Discharge Characteristics Curve



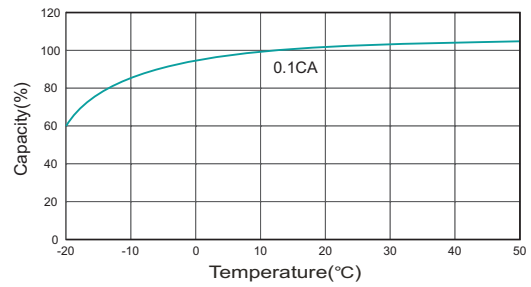
## Charging Characteristics Curve



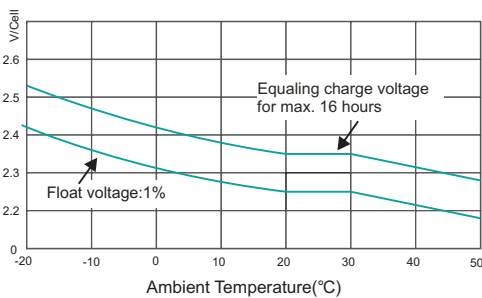
## Cycle life in relation to depth of Discharge



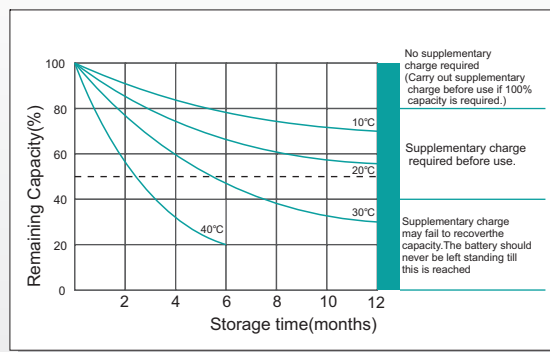
## Temperature effects on Capacity



## Relationship between charging voltage and temperature



## Self-discharge Characteristics



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