

OPzS2-1500

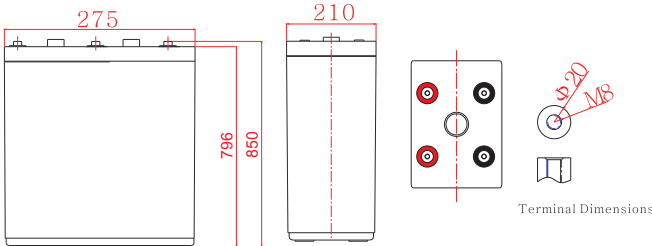


General Features

- > 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)×796(H)×850(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,Ø=20
Approx. Weight	Approx 107kg (235.9lbs) Dry cell 77Kg
Container Material	SAN transparent container
Rated Capacity	1584.0Ah 10Hour Rate (158.4A to 1.80V)
	1353.0Ah 5Hour Rate (270.6A to 1.75V)
	908.8Ah 1Hour Rate (908.8A to 1.60V)
Internal resistance	Full charged at 25°C: 0.20 mΩ
Max. Discharge Current	9600A(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.300A ; Recom. 150A
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)

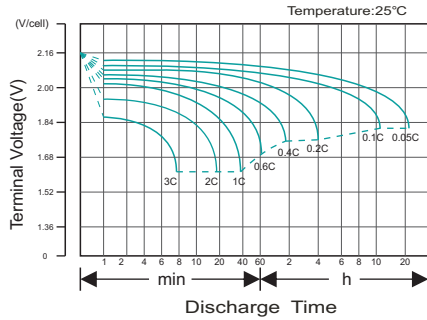
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	1264	865	539	389	310	267	236	191.3	159.2	70.80	39.15
1.65V	1222	845	529	383	307	264	233	189.9	158.3	70.80	38.85
1.70V	1171	820	516	377	303	261	230	187.7	157.5	70.05	38.55
1.75V	1127	796	503	368	297	256	225	184.2	155.3	68.85	38.10
1.80V	1031	758	484	361	291	250	219	179.6	150.5	67.20	37.35
1.85V	915	704	458	349	282	242	212	174.5	148.5	65.10	35.55
1.95V	740	563	399	311	263	226	196	158.3	133.5	59.70	33.30

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

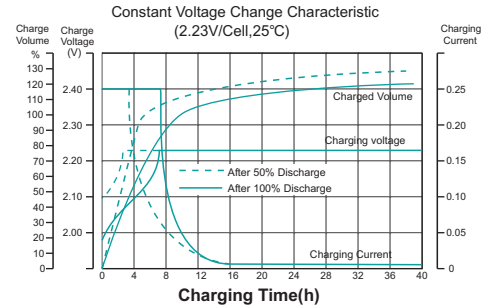
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	2304	1595	996	720	575	495	438	355.7	295.8	132.15	74.25
1.65V	2249	1560	975	710	569	491	432	353.0	294.6	131.85	73.95
1.70V	2160	1515	954	701	563	483	426	348.3	293.0	130.35	73.35
1.75V	2085	1479	935	686	554	477	420	343.7	290.3	129.30	73.05
1.80V	1925	1427	912	681	551	474	416	341.0	283.8	127.65	72.30
1.85V	1740	1335	873	668	540	465	407	334.8	285.2	126.15	70.20
1.95V	1460	1110	789	617	521	447	389	314.1	266.0	120.45	68.25

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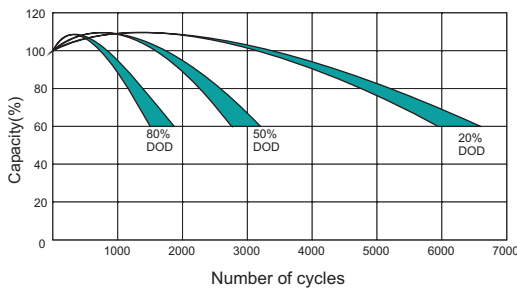
Discharge Characteristics Curve



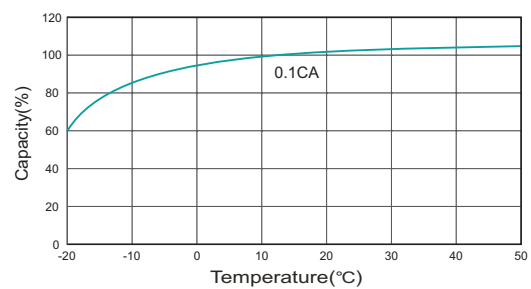
Charging Characteristics Curve



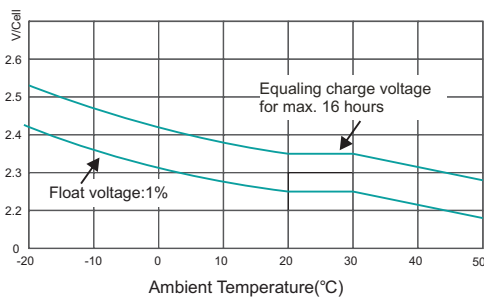
Cycle life in relation to depth of Discharge



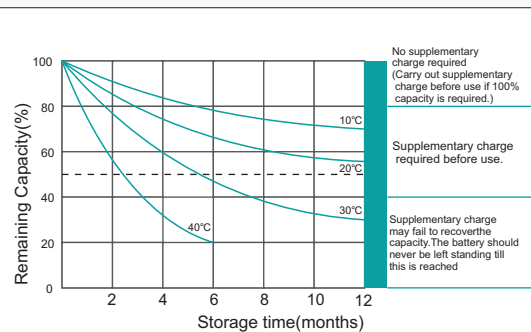
Temperature effects on Capacity



Relationship between charging voltage and temperature



Self-discharge Characteristics



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