

OPzV2-1500

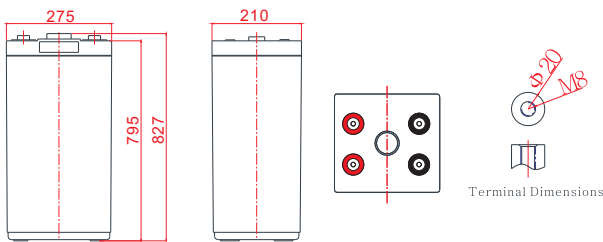


General Features

- > 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)×795(H)×827(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 (246.9lbs)		
Container Material	ABS		
Rated Capacity	1500Ah	10Hour Rate	(150A to 1.80V)
	1125Ah	3Hour Rate	(375A to 1.80V)
	750Ah	1Hour Rate	(750A to 1.80V)
Internal resistance	Full charged at 25°C: 0.33 mΩ		
Max. Discharge Current	7500A(5S)		
Operating Temperature	Discharge: -15~50°C(5~ 122°F)		
	Charge: -15~50°C(5~ 122°F)		
	Storage: -20~40°C(-4~ 104°F)		
Charge current:	Max. 300.0A ; Recom.150.0A		
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)

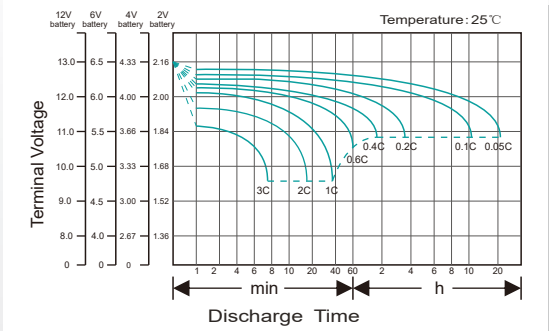
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1559	1225	891	557	401	319	271.0	238.3	192.3	157.4	80.6
1.65V	1470	1166	839	542	394	312	268.0	235.4	190.8	156.7	80.0
1.70V	1388	1114	824	527	386	310	264.3	231.7	188.6	155.9	79.4
1.75V	1299	1054	772	512	379	304	259.9	227.2	184.9	153.7	78.8
1.80V	1210	988	750	497	375	297	254.0	221.3	180.4	150.0	76.4
1.85V	1114	898	691	468	356	290	245.8	213.8	175.2	147.0	75.3

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

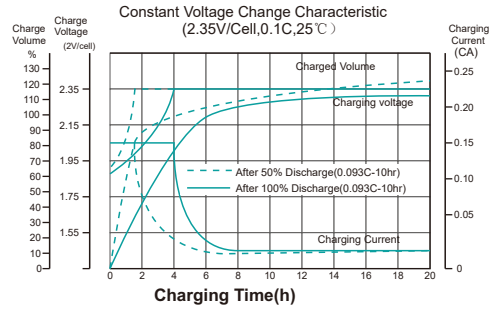
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	2688	2153	1626	1040	757	605.1	514.6	453.7	367.5	301.5	154.6
1.65V	2569	2042	1530	1017	746	593.3	510.1	449.2	365.3	300.7	154.1
1.70V	2428	1960	1507	995	735	591.8	504.9	443.3	362.3	300.0	153.5
1.75V	2294	1879	1440	973	724	582.9	498.2	436.6	356.4	297.0	152.9
1.80V	2168	1804	1381	950	713	571.0	488.6	426.2	348.2	288.8	148.8
1.85V	2012	1663	1314	898	691	562.1	478.2	416.5	341.6	287.3	147.6

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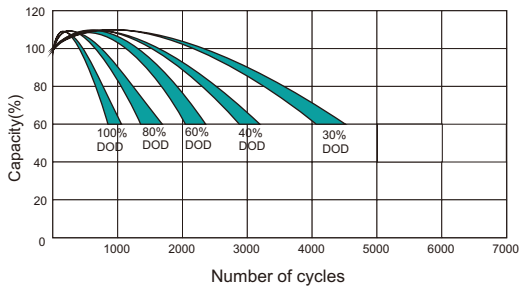
Discharge Characteristics Curve



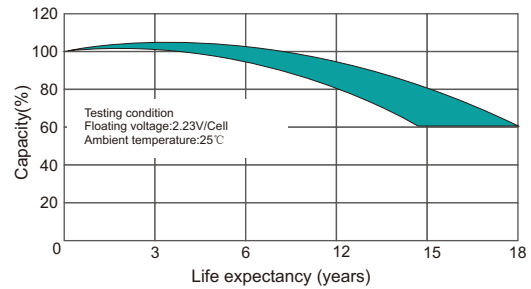
Charging Characteristics Curve



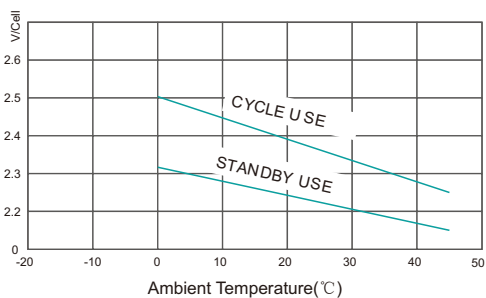
Cycle life of Different DOD



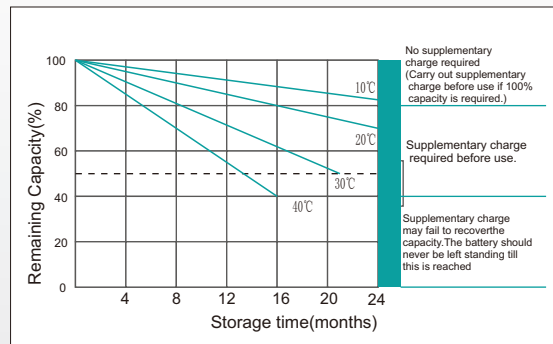
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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