

## OPZV2-3000

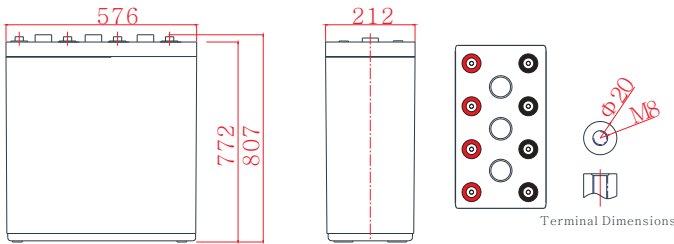


### General Features

- > Nanosilica colloidal electrolyte and 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: 576(L)×212(W)×772(H)×807(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	3000Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 225kg (496lbs)		
Container Material	ABS		
Rated Capacity	3000Ah	10Hour Rate	(300A to 1.80V)
	2250Ah	3Hour Rate	(750A to 1.80V)
	1500Ah	1Hour Rate	(1500A to 1.80V)
Internal resistance	Full charged at 25°C: 0.28 mΩ		
Max. Discharge Current	15000A(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.600A ; Recom.300A		
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)

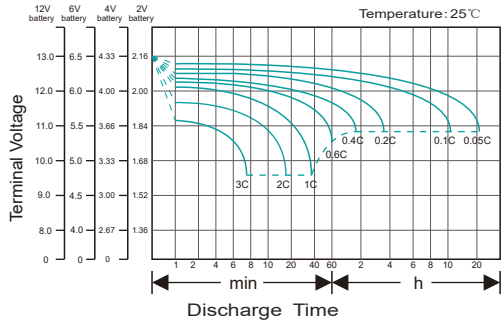
F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	3150	2475	1800	1125	810	645	547.5	481.5	388.5	318.0
1.65V/cell	2970	2355	1695	1095	795	630	541.5	475.5	385.5	316.5
1.70V/cell	2805	2250	1665	1065	780	627	534.0	468.0	381.0	315.0
1.75V/cell	2625	2130	1560	1035	765	615	525.0	459.0	373.5	310.5
1.80V/cell	2445	1995	1500	1005	750	600	512.0	447.0	364.5	301.5
1.85V/cell	2250	1815	1395	945	720	585	496.5	432.0	354.0	297.0

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

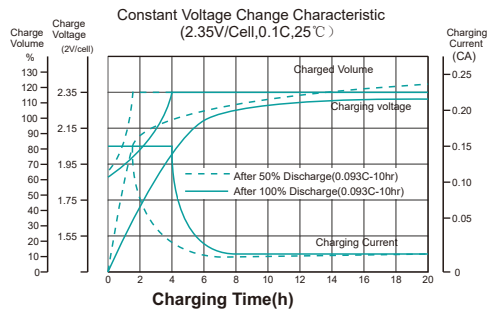
F. V/ ime	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	5430	4350	3285	2100	1530	1223	1039.5	916.5	742.5	609.0
1.65V/cell	5190	4125	3090	2055	1508	1199	1030.5	907.5	738.0	607.5
1.70V/cell	4905	3960	3045	2010	1485	1196	1020.0	895.5	732.0	606.0
1.75V/cell	4635	3795	2910	1965	1463	1178	1006.5	882.0	720.0	600.0
1.80V/cell	4380	3645	2790	1920	1440	1154	987.0	861.0	703.5	583.5
1.85V/cell	4065	3360	2655	1815	1395	1136	966.0	841.5	690.0	580.5

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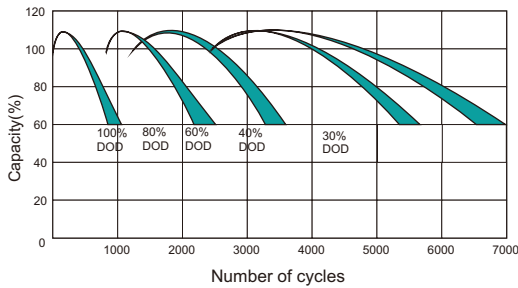
### Discharge Characteristics Curve



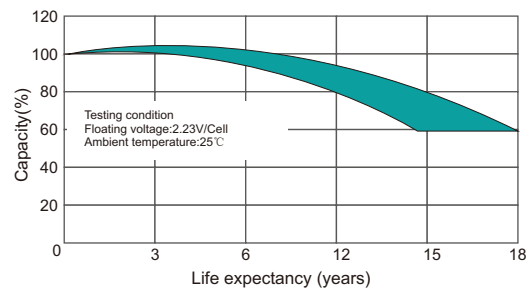
### Charging Characteristics Curve



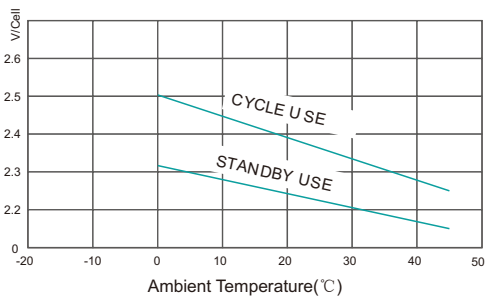
### Cycle life of Different DOD



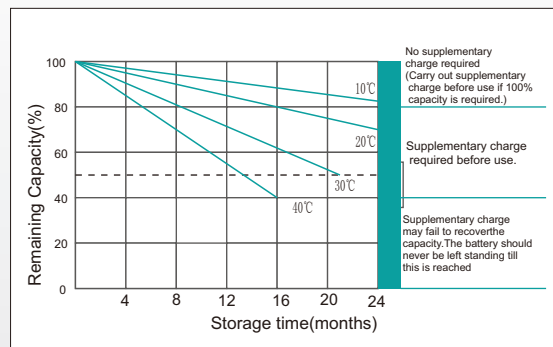
### Float charging service life Curve



### Charging voltage and temperature relationship



### Self-discharge Characteristics



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