

OPZV2-3000

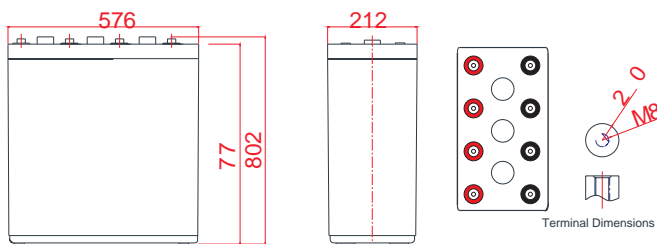


General Features

- > 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)x212(W) x770(H) x802(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 22.6 kg (499 lbs)		
Container Material	ABS		
Rated Capacity	3000Ah	10Hour Rate	(300A to 1.80V)
	2268Ah	3Hour Rate	(756A to 1.80V)
	1666Ah	1Hour Rate	(1666A to 1.75V)
Internal resistance	Full charged at 25°C: 0.11 m		
Max. Discharge Current	18000A(5S)		
Operating Temperature	Discharge: -40 ~-60 (-40~ 140°F)		
	Charge: -20 ~-50 (-4~ 122°F)		
	Storage: -20 ~50 (-4~ 122°F)		
Charge current:	Max.600A Recom.300A		
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 , 77)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	3278	2618	1820 1120		804	552	388	318	170
1.65V	3126	2500	1786 1100		794	544	382	316	169
1.70V	2970	2346	1720 1072		782	534	376	310	166
1.75V	2800	2190	1666 1044		770	522	372	306	164
1.80V	2516	2006	1560 1010		756	508	364	300	160
1.85V	2126	1790	1460 970		726	490	354	294	156

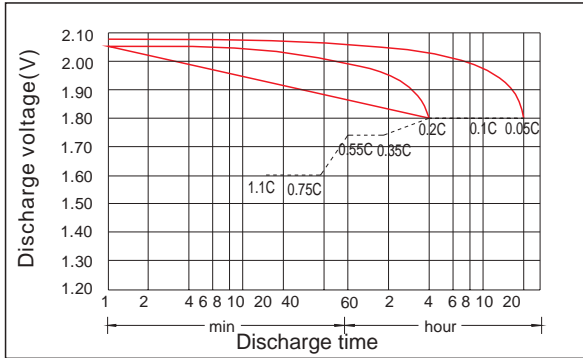
Constant Power Discharge Characteristics Unit: W (25 , 77)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	6550	5200	3530	2200	1690 1132		810	672	360
1.65V	6246	4950	3346	2168	1646 1116		796	644	352
1.70V	5966	4736	3250	2130	1600 1092		780	642	344
1.75V	5650	4530	3136	2076	1556 1064		762	630	336
1.80V	5370	4360	3150	2014	1508 1032		742	614	328
1.85V	4926	4130	2886	1906	1442 982		714	596	318

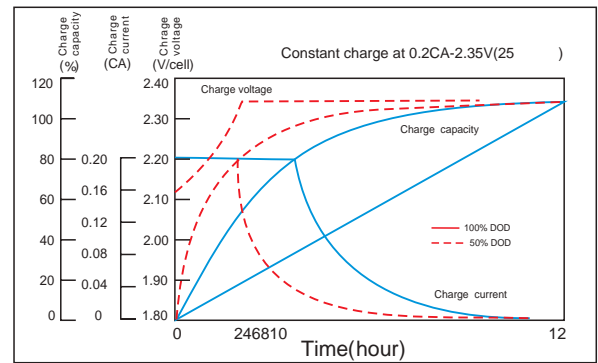
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OPZV Series tubular GEL battery

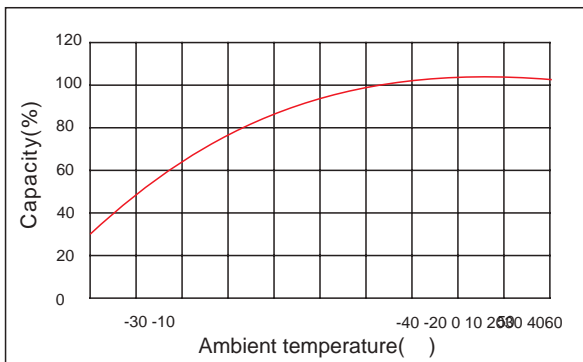
Discharge characteristic



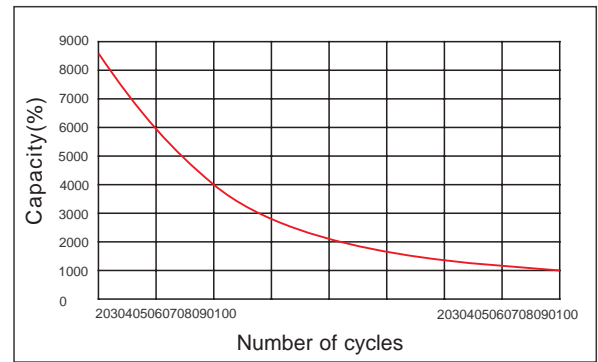
Charging characteristic



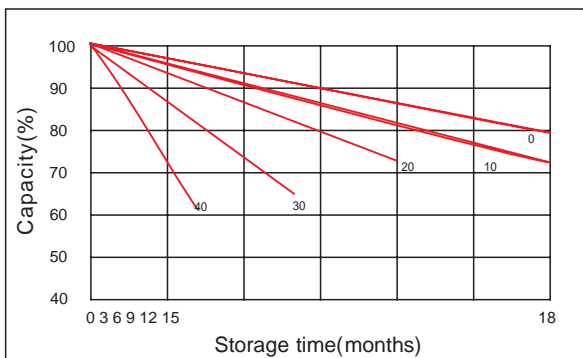
The effect of temperature on capacity



The effect of discharge depth on cycle life



Cur ves of self-discharge



Curves of open circuit voltage vs. capacity

