

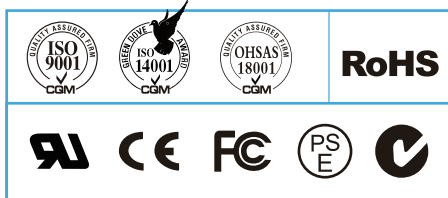


OPzV2-3000

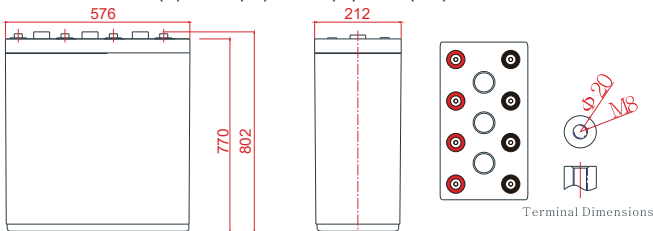


General Features

- › 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: 576(L)×212(W)×770(H)×802(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 (497lbs)		
Container Material	ABS		
Rated Capacity	3000Ah	10Hour Rate	(300A to 1.80V)
	2268Ah	3Hour Rate	(756A to 1.80V)
	1665Ah	1Hour Rate	(1665A to 1.75V)
Internal resistance	Full charged at 25°C: 0.28 m Ω		
Max. Discharge Current	13000A(5S)		
Operating Temperature	Discharge: -20~50 °C (-4~ 122°F)		
	Charge: -20~50 °C (-4~ 122°F)		
	Storage: -20~50 °C (-4~ 122°F)		
Charge current: Max. 600.0A ; Recom.300.0A			
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 °C, 77 °F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	3285	2625	1815	1121	804	552	389	318	171
1.65V	3120	2505	1785	1100	794	545	383	317	170
1.70V	2970	2340	1725	1073	782	534	377	311	167
1.75V	2805	2190	1665	1044	770	522	372	306	164
1.80V	2520	2010	1560	1010	756	509	365	300	161
1.85V	2130	1785	1460	971	726	491	354	294	156

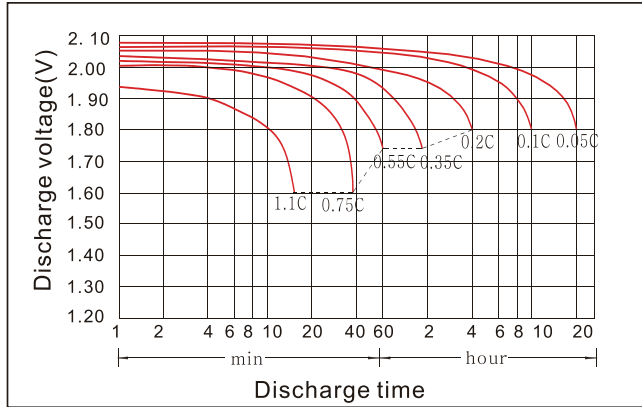
Constant Power Discharge Characteristics Unit: W/cell (25 °C, 77 °F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	6555	5205	3525	2205	1695	1133	810	672	360
1.65V	6240	4950	3345	2175	1650	1116	797	644	353
1.70V	5970	4740	3255	2130	1605	1092	780	642	344
1.75V	5655	4530	3135	2070	1560	1064	762	630	336
1.80V	5370	4365	3150	2010	1515	1032	743	614	329
1.85V	4920	4125	2880	1905	1442	983	714	596	318

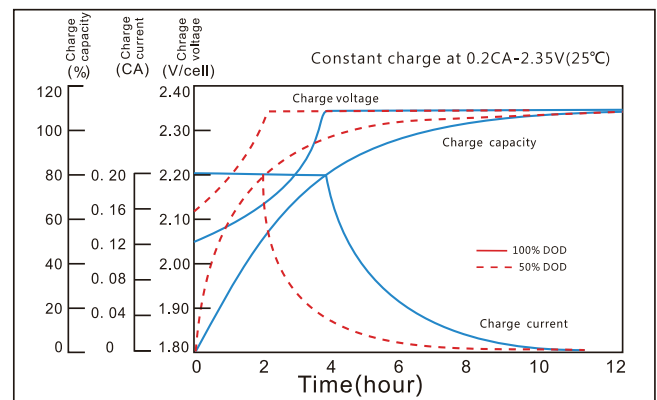


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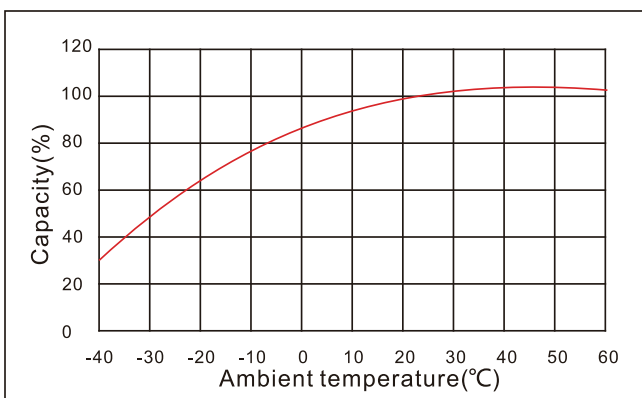
Discharge characteristic



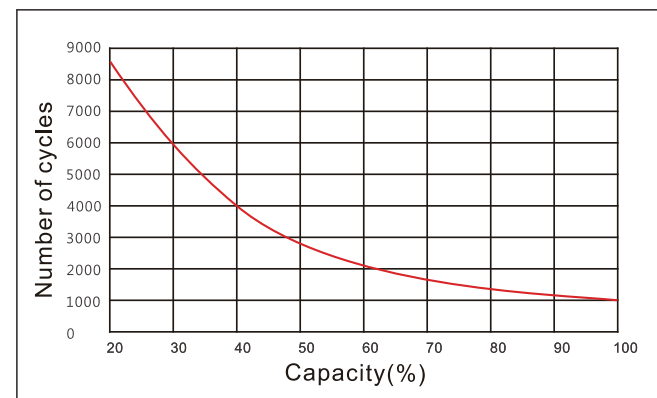
Charging characteristic



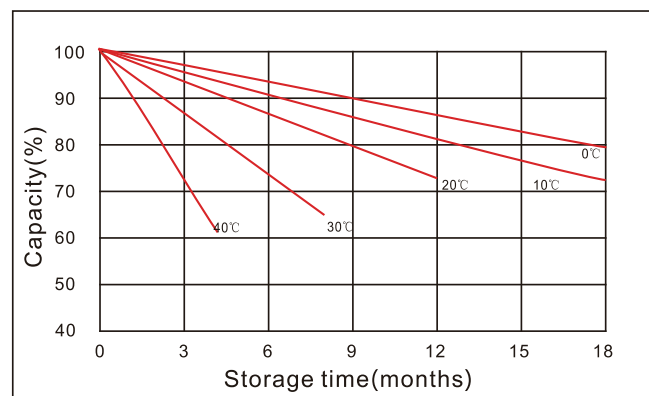
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

