

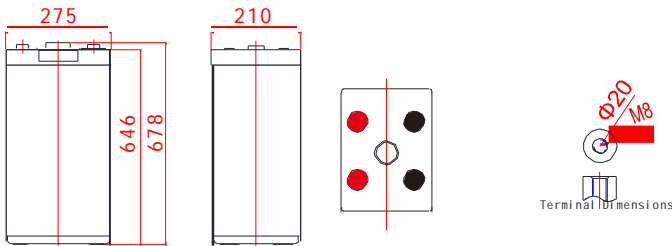


### General Features

- › 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: 275(L)x210(W) x646(H)x678(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	1200Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 87kg (191lbs)	
Container Material	ABS	
Rated Capacity	1200Ah	10Hour Rate (120A to 1.80V)
	906Ah	3Hour Rate (302A to 1.80V)
	666Ah	1Hour Rate (666A to 1.75V)
Internal resistance	Full charged at 25°C:	0.22 mΩ
Max. Discharge Current	7200A(5S)	
Operating Temperature	Discharge:	-40 ~ -60°C (-40 ~ 140°F)
	Charge:	-20 ~ -50°C (-4 ~ 122°F)
	Storage:	-20 ~ -50°C (-4 ~ 122°F)
Charge current:	Max. 240A ; Recom.120A	
	Float Charge voltage(-3mV/°C) :	
	2.23-2.27V, recom.2.25V(Full floating system)	
Charge Method (25 °C)	2.23-2.27V, recom.2.27V(Cycle use system)	
	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	1311	1048	728	448	322	221	155	127	68.1
1.65V	1250	1000	714	440	317	218	153	126	67.5
1.70V	1188	938	688	429	313	213	151	124	66.5
1.75V	1120	876	666	417	308	209	148	122	65.5
1.80V	1006	803	624	404	302	204	146	120	64.1
1.85V	850	716	584	388	291	196	141	117	62.3

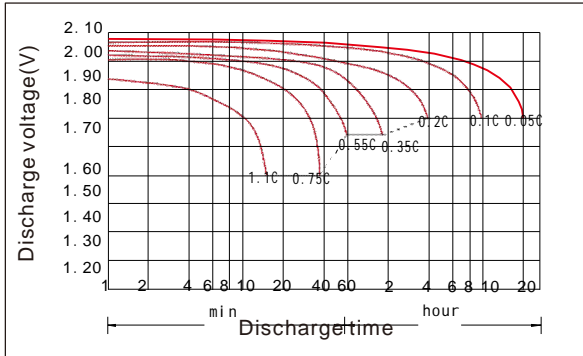
### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	2620	2080	1412	880	676	453	324	269	144
1.65V	2498	1980	1338	867	658	446	319	257	141
1.70V	2386	1894	1300	852	640	437	312	258	138
1.75V	2260	1812	1254	830	622	426	305	252	135
1.80V	2148	1744	1260	805	603	413	296	246	131
1.85V	1970	1652	1154	762	577	393	285	238	127

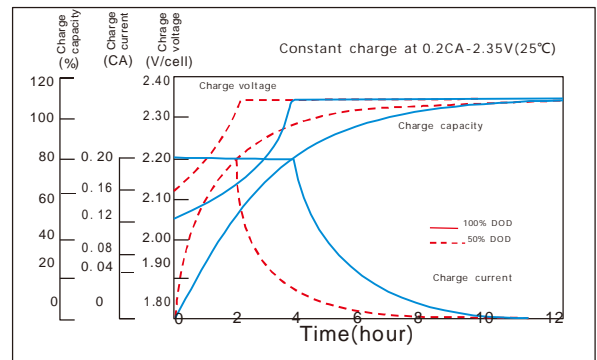
# OPZV Series tubular GEL battery

## OPZV2-1200

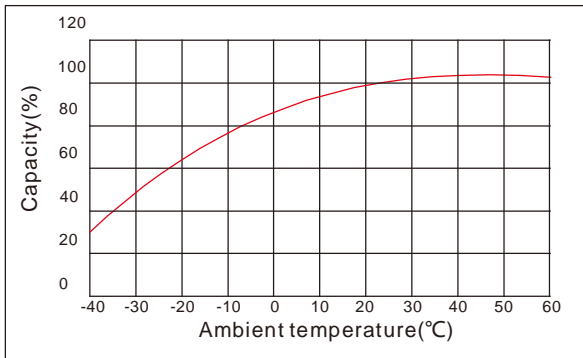
Discharge characteristic



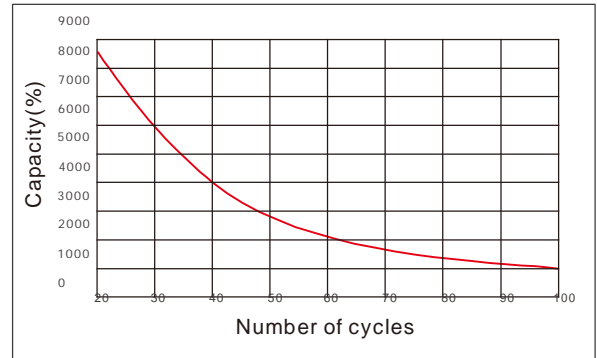
Charging characteristic



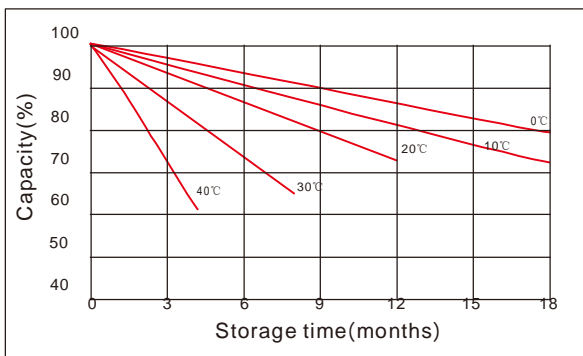
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

