

# OPZV2-600

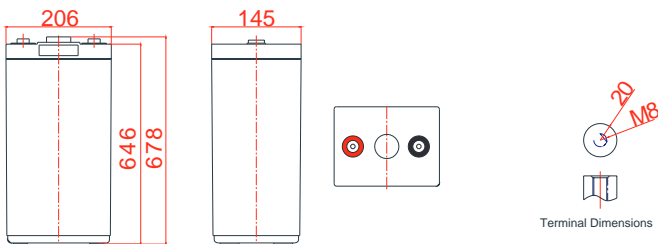


## General Features

- > 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: 145(L)x206(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	600Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 49.0kg (108lbs)		
Container Material	ABS		
Rated Capacity	600Ah	10Hour Rate	(60.0A to 1.80V)
	453Ah	3Hour Rate	(151A to 1.80V)
	333Ah	1Hour Rate	(333A to 1.75V)
Internal resistance	Full charged at 25°C: 0.43 m		
Max. Discharge Current	4800A(5S)		
Operating Temperature	Discharge:	-40 ~60 (-40~ 140°F)	
	Charge:	-20 ~50 (-4~ 122°F)	
	Storage:	-20 ~50 (-4~ 122°F)	
Charge current:	Max.120A Recom.60A		
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	656	524	364	224	161	111	77.5	63.7	34.1
1.65V	625	500	357	220	159	109	76.4	63.1	33.8
1.70V	594	469	344	214	156	107	75.4	62.2	33.3
1.75V	560	438	333	209	154	104	74.2	61.2	32.8
1.80V	503	401	312	202	151	102	72.8	60.0	32.0
1.85V	425	358	292	194	145	98.1	70.7	58.7	31.1

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

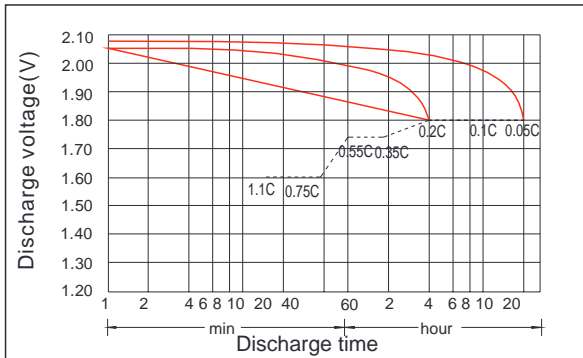
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1310	1040	706	440	338	226	162	135	72.0
1.65V	1249	990	669	434	329	223	159	128	70.4
1.70V	1193	947	650	426	320	219	156	129	68.8
1.75V	1130	906	627	415	311	213	152	126	67.3
1.80V	1074	872	630	403	302	206	148	123	65.6
1.85V	985	826	577	381	289	196	143	119	63.7

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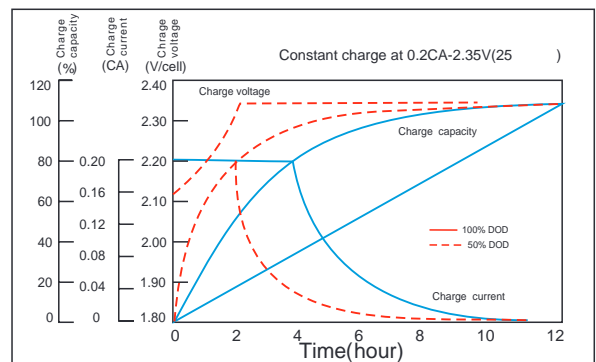
## OPZV Series tubular

## GEL battery

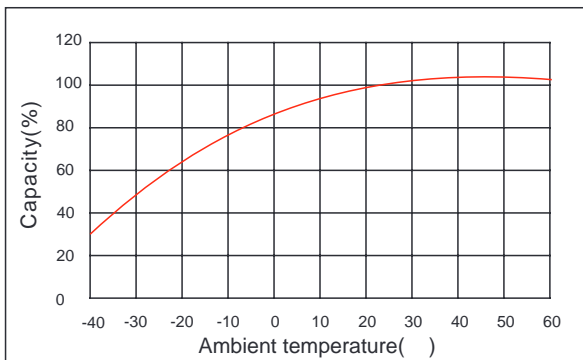
Discharge characteristic



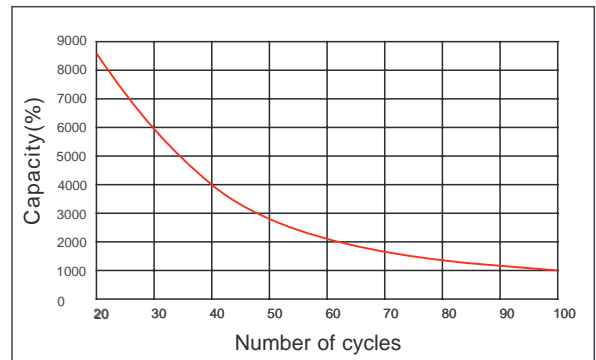
Charging characteristic



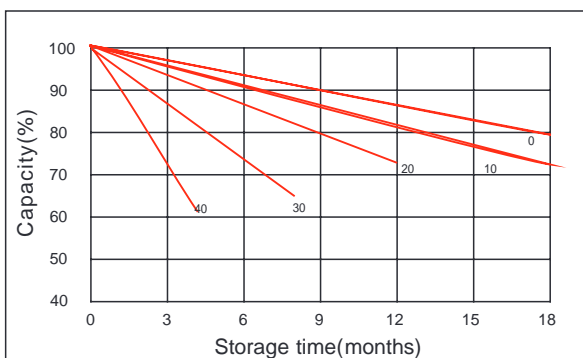
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

