

# OPzV600

**2V600Ah / 10hr rate****BATTERY**  
**Genergy**

## Introduction

**Genergy OPzV series** is designed for alternative energy system including solar energy system with 20-year design life in float service. Immobilized Gel and tubular plate technology is applied to provide high performance and long life. The series is suitable for cyclic use under extreme operating conditions.

## Battery Features

- Genuine Gel
- Long service life. Under float charging, ambient temperature 25° C, it can operate 15-20 years.
- Multi-position usage
- Enhanced deep cycle performance.
- Excellent recovery from deep discharge and good deep discharge cycle capability.
- Very low self-discharge.
- Excellent temperature resistance performance.
- Superior low current discharge performance.
- Strong constant power discharge capability.
- Very good charge reception capability.

## Electrical Specification

Design floating Life @ 25°C (77°F)	20 years
Nominal Capacity @ 25°C /77°F	
120 hr rate 6.6A to 1.85Vpc	792 Ah
10 hr rate 60.3A to 1.80Vpc	603 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.43 mΩ
Max. Discharge Current @ 25°C /77°F	2500 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	90 A
Standby Use	2.23 ~ 2.27V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature.</i>	
<i>Please refer to our recommendation.</i>	
Self-Discharge	2% of capacity declined per month @ 25°C (77°F).

## Typical Applications

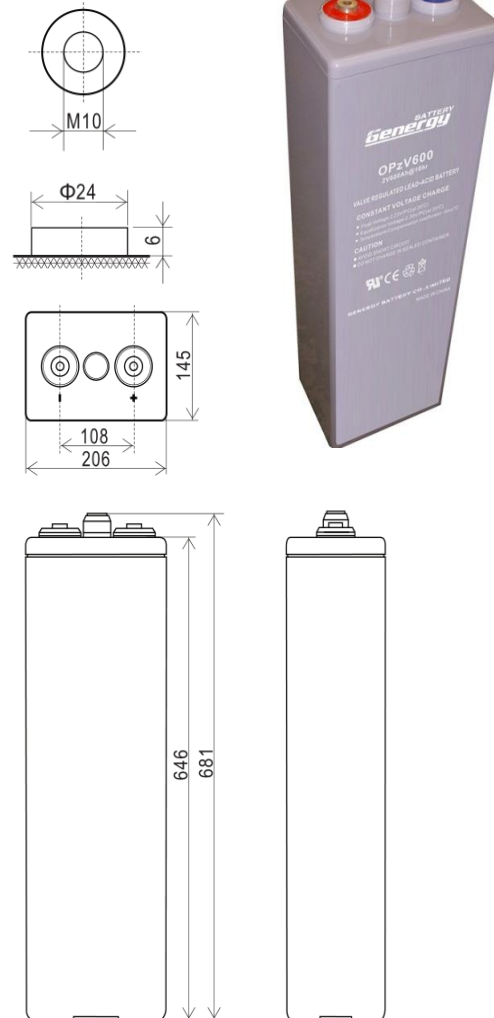
- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

## Constant Current Discharge (Amperes @ 25°C /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	756	564	354	161	113	62.4	30.2	16.9	7.17
1.70	684	513	333	156	107	61.9	29.8	16.7	7.11
1.75	645	486	315	154	105	61.2	29.6	16.5	7.06
1.80	606	459	306	150	101	60.0	29.3	16.3	7.02
1.85	567	417	293	147	98.1	56.7	27.9	15.6	6.60

## Battery Picture & Terminal Layout

Terminal Type: T28



## Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
206 mm	145 mm	646 mm	681 mm	45 kg
8.1 inch	5.7 inch	25.4 inch	26.8 inch	99.2 lbs

## Constant Power Discharge (Watts/cell @ 25°C /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	1474	1100	704	321	226	124	60.5	33.8	14.3
1.70	1334	980	663	311	214	123	60.1	33.6	14.2
1.75	1258	948	621	307	208	122	59.6	33.2	14.2
1.80	1182	895	609	299	200	119	58.4	32.5	13.9
1.85	1106	813	584	292	195	113	55.5	31.0	13.1

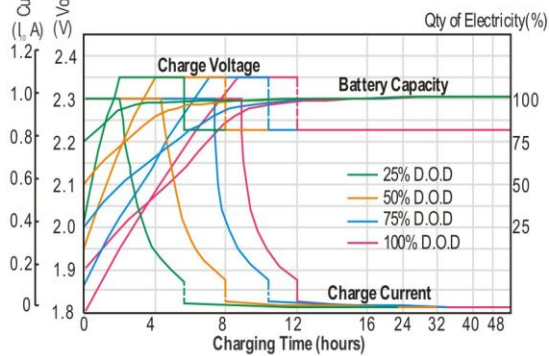
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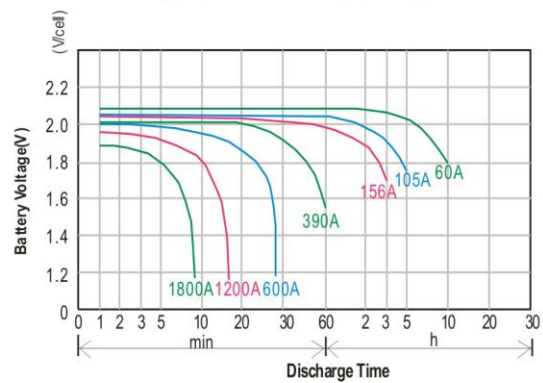
## Graphs

### Charge Characteristic Curve

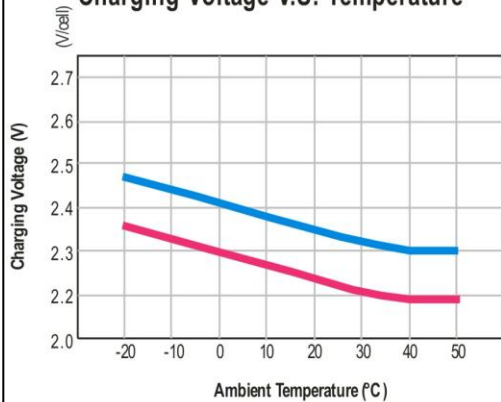
Constant Voltage Charging Characteristic (25°C)



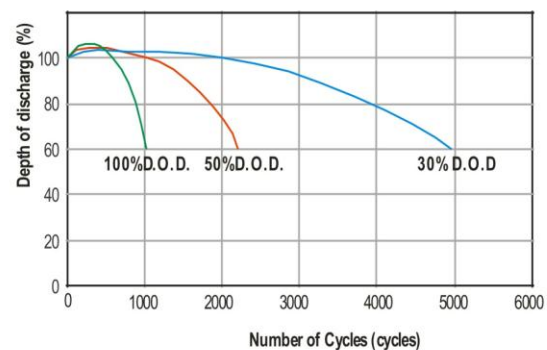
### Discharge Characteristic (25°C)



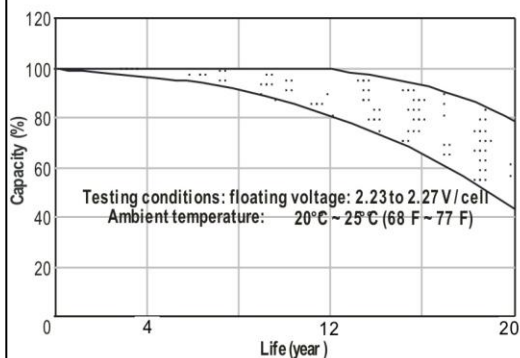
### Charging Voltage V.S. Temperature



### Cycle Service Life V.S. Depth Of Discharge



### Life Characteristics Of Standby Use



### Self-Discharge Characteristic

