

OPzV3000

2V3000Ah / 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 31.6A to 1.85Vpc	3792 Ah
10 hr rate 301.5A to 1.80Vpc	3015 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.11 mΩ
Max. Discharge Current @ 25°C /77°F	15000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	450 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

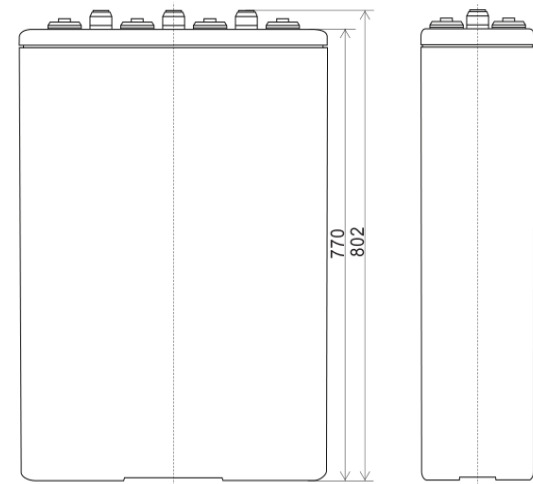
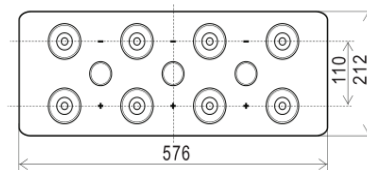
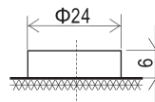
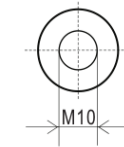
- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	3780	2820	1680	806	568	312.0	76.8	38.6	35.8
1.70	3420	2568	1668	782	538	309.0	76.5	38.3	35.3
1.75	3228	2436	1560	772	524	306.0	76.0	38.0	34.8
1.80	3036	2292	1536	750	502	300.0	75.5	37.6	33.2
1.85	2832	2088	1464	734	490	284.0	72.0	36.0	31.6

Battery Picture & Terminal Layout

Terminal Type: T28



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
576 mm	212 mm	770 mm	802 mm	228 kg
22.7 inch	8.3 inch	30.3 inch	31.6 inch	502.7 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	7368	5508	3380	1608	1132	620	159	108	67.6
1.70	6672	5004	3312	1548	1072	616	157	107	67.3
1.75	6288	4740	3180	1536	1046	608	154	106	66.9
1.80	5904	4476	3048	1488	1004	598	150	104	65.6
1.85	5532	4068	2928	1452	976	564	143	100	62.4

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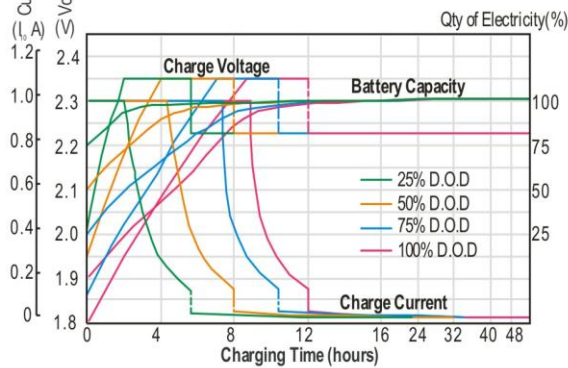
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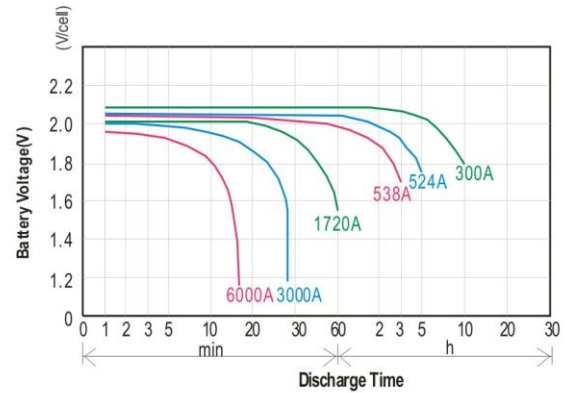
Graphs

Charge Characteristic Curve

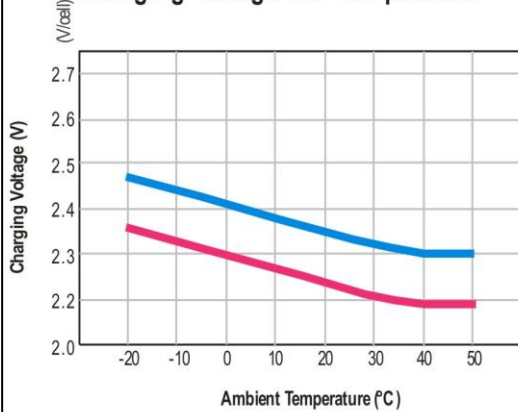
Constant Voltage Charging Characteristic (25°C)



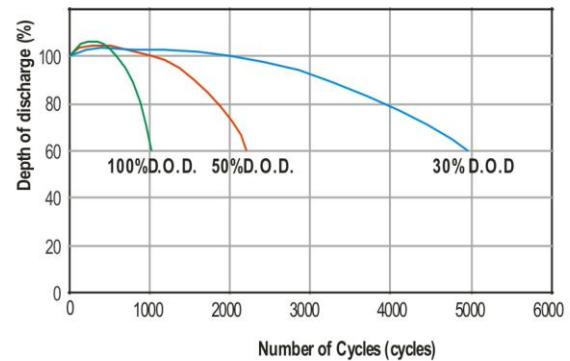
Discharge Characteristic (25°C)



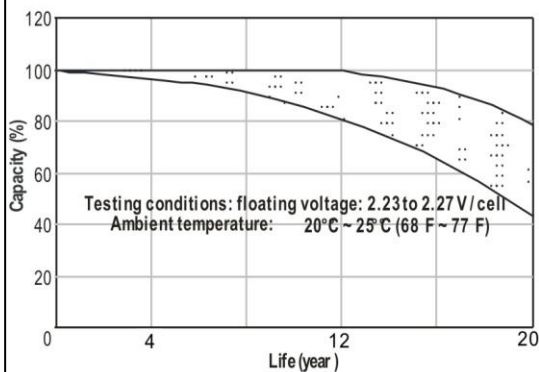
Charging Voltage V.S. Temperature



Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic

