

OPzV1000

2V1000Ah / 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 11A to 1.85Vpc	1320 Ah
10 hr rate 100.5A to 1.80Vpc	1005 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.24 mΩ
Max. Discharge Current @ 25°C /77°F	5000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	150 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).

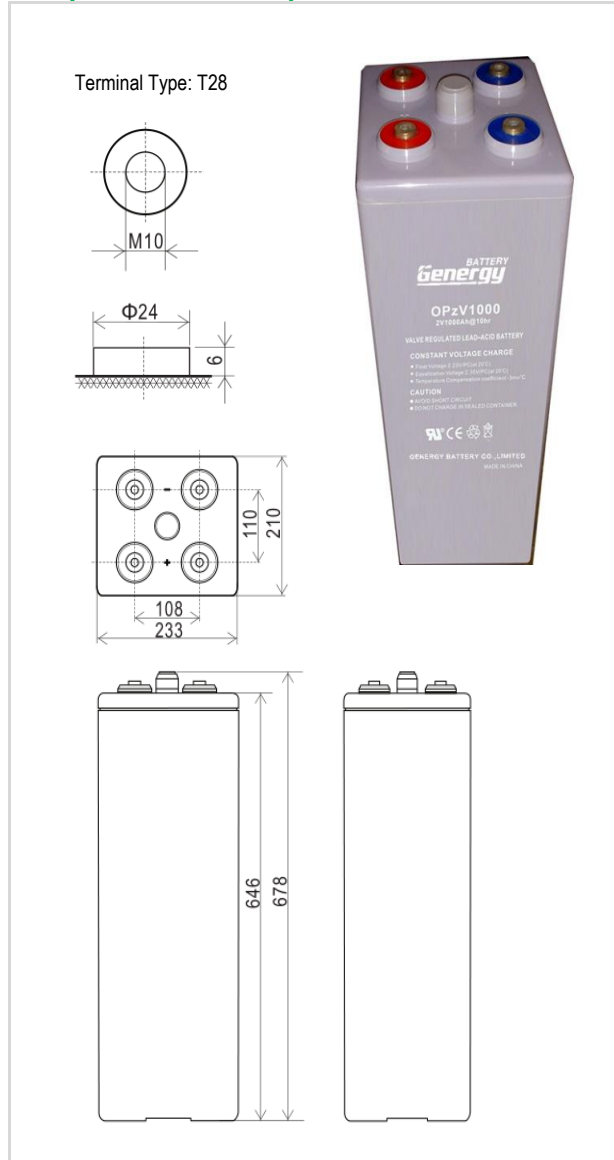
Typical Applications

- 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	1260	940	590	269	189	\	\	\	\
1.70	1140	855	555	261	179	\	\	\	\
1.75	1075	810	520	257	175	102	\	\	\
1.80	1010	756	510	250	168	100	\	\	\
1.85	945	695	489	245	164	94.5	46.5	26.2	11.0

Battery Picture & Terminal Layout



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
233 mm	210 mm	646 mm	678 mm	80 kg
9.2 inch	8.3 inch	25.4 inch	26.7 inch	176.4 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	2455	1830	1180	535	376	\	\	\	\
1.70	2225	1665	1105	520	357	\	\	\	\
1.75	2095	158	1040	510	347	203	\	\	\
1.80	1970	1490	1015	497	334	199	\	\	\
1.85	1845	1355	975	486	325	189	92.5	51.5	22.2

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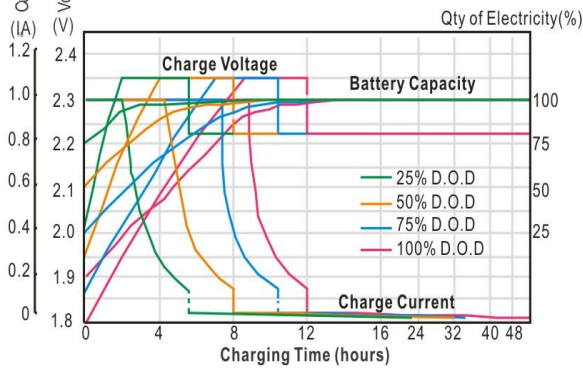
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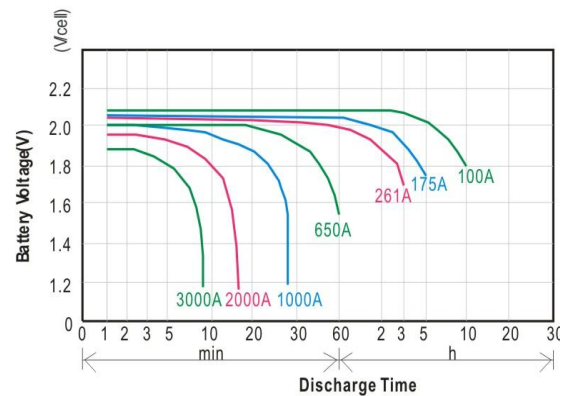
Graphs

Charge Characteristic Curve

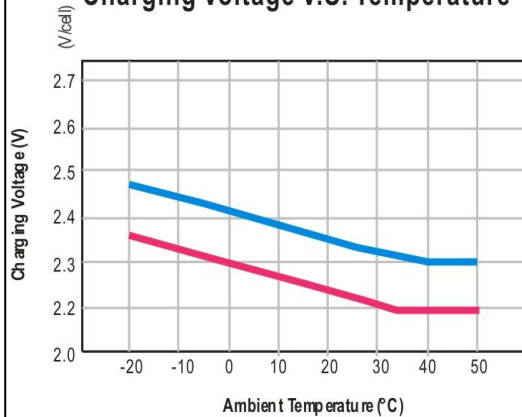
Constant Voltage Charging Characteristic (25°C)



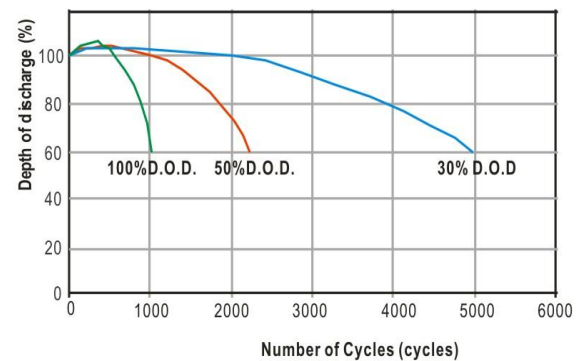
Discharge Characteristic (25°C)



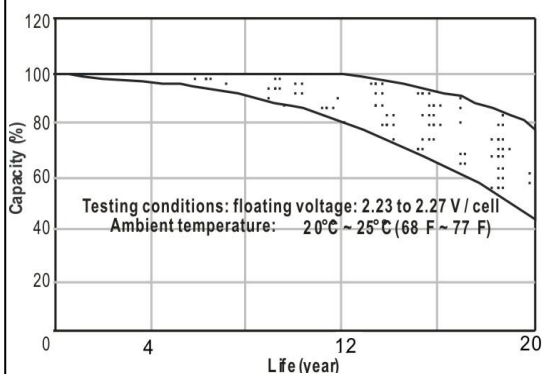
Charging Voltage V.S. Temperature



Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic

