

OPzV300

2V300Ah / 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	
100 hr rate 3.6A to 1.85Vpc	360 Ah
10 hr rate 30.2A to 1.80Vpc	302 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.62 mΩ
Max. Discharge Current @ 25°C /77°F	1800 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	45 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

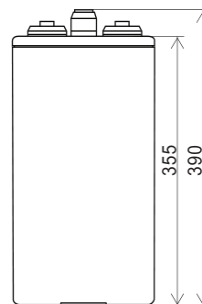
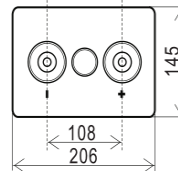
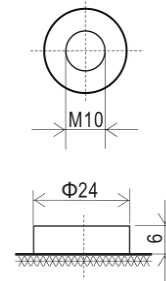
- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	378	282	178	80.5	56.8	\	\	\	\
1.70	342	257	167	78.1	53.8	\	\	\	\
1.75	323	244	156	77.2	52.3	30.6	\	\	\
1.80	304	229	154	75.0	50.3	30.0	\	\	\
1.85	283	209	146	73.3	49.1	28.3	7.2	3.6	3.17

Battery Picture & Terminal Layout

Terminal Type: T28



Dimension & Weight

Length	Dimension (± 2mm)			Weight (± 2%)
	Width	Height	Total Height	
206 mm	145 mm	355 mm	390 mm	25 kg
8.1 inch	5.7 inch	14.0 inch	15.4 inch	55.1 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	737	551	353	161	113	\	\	\	\
1.70	667	500	331	155	107	\	\	\	\
1.75	629	474	311	154	105	60.8	\	\	\
1.80	590	448	305	149	100	59.8	\	\	\
1.85	553	407	293	145	97.7	56.4	14.3	9.96	6.24

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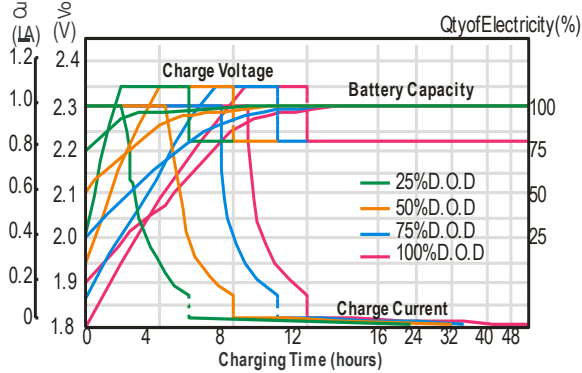
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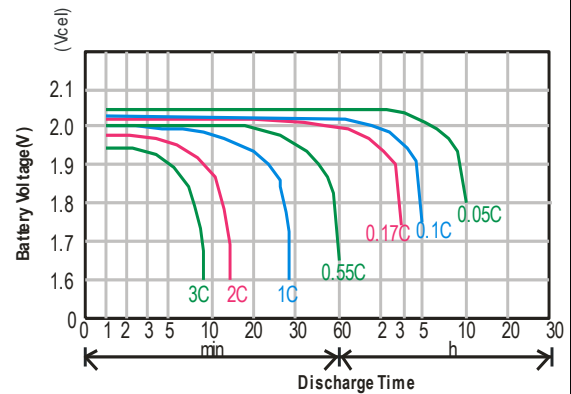
Graphs

Charge Characteristic Curve

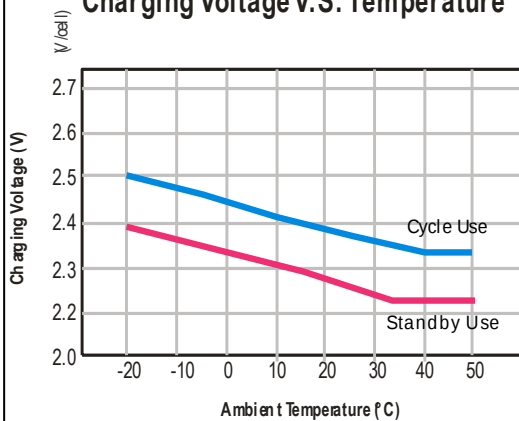
Constant Voltage Charging Characteristic (25°C)



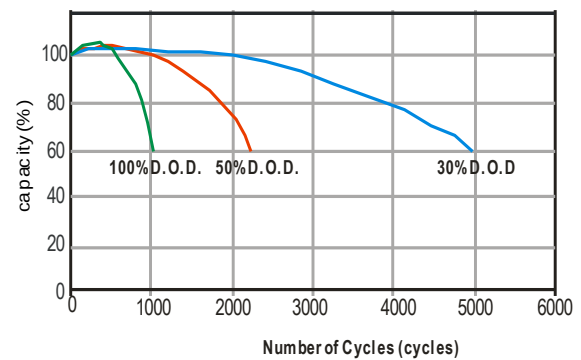
Discharge Characteristic (25°C)



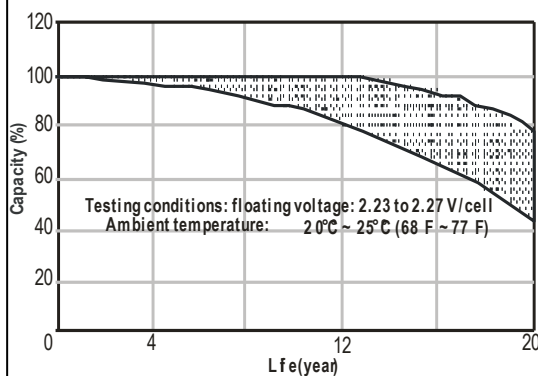
Charging Voltage V.S. Temperature



Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic

