OPzV200

2V200Ah / 10hr rate

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 2.4A to 1.85Vpc	240 Ah
10 hr rate 20.1A to 1.80Vpc	201 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.94 mΩ
Max. Discharge Current @ 25°C /77°F	1000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	30 A
Standby Use	2.23 ~ 2.27V
Operating Temperature Range	-30 ~ 50°C

Notes: battery voltage must be adjusted according to temperature.

Please refer to our recommendation.

Self-Discharge

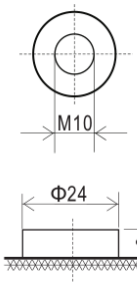
2% of capacity declined per month @ 25°C (77°F).

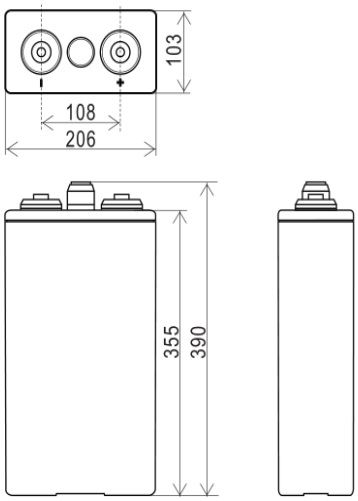
Typical Applications

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

Battery Picture & Terminal Layout

Terminal Type: T28





Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
206 mm	103 mm	355 mm	390 mm	18 kg
8.1 inch	4.1 inch	14.0 inch	15.4 inch	39.7 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	252	188	112	54	37.9	\	\	\	\
1.70	228	171	110	52	35.9	\	\	\	\
1.75	215	162	104	52	35.0	20.4	\	\	\
1.80	202	153	102	50	33.5	20.0	\	\	\
1.85	188	139	98	49	32.7	18.9	4.8	2.4	2.1

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	491	367	225	107	76	\	\	\	\
1.70	445	333	220	103	72	\	\	\	\
1.75	419	316	207	102	70	40.5	\	\	\
1.80	393	298	203	99	67	39.9	\	\	\
1.85	368	271	195	97	65	37.6	9.52	6.64	4.16

Subject to revision without notice. Please contact our sales representatives for latest version.

Web: www.genergybattery.com | **Email:** sales@genergybattery.com

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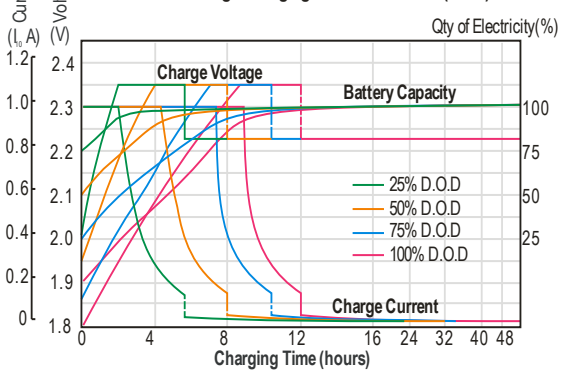
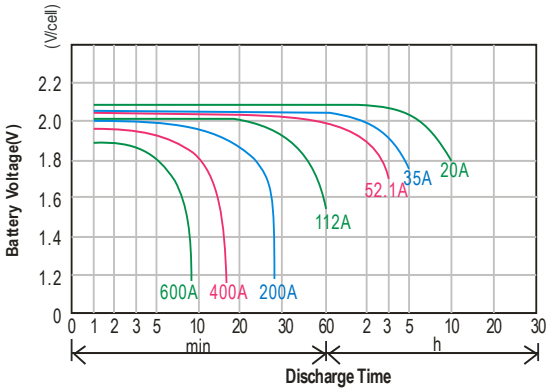
Graphs

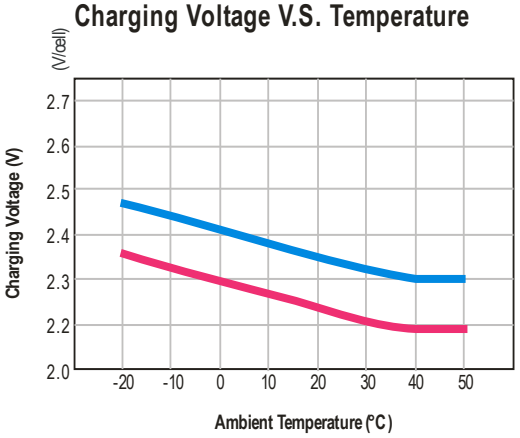
Charge Characteristic Curve



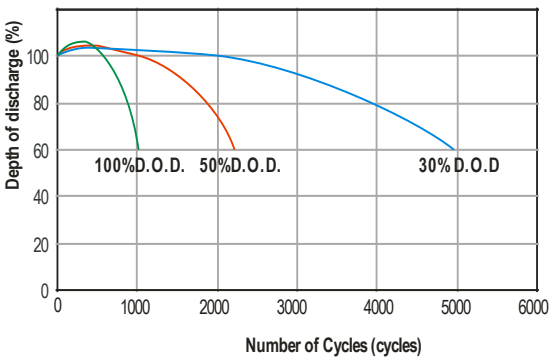
Discharge Characteristic (25°C)



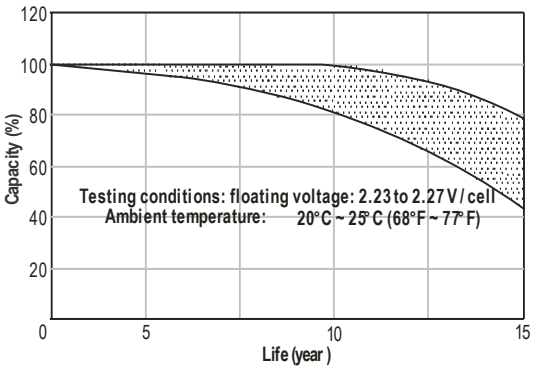
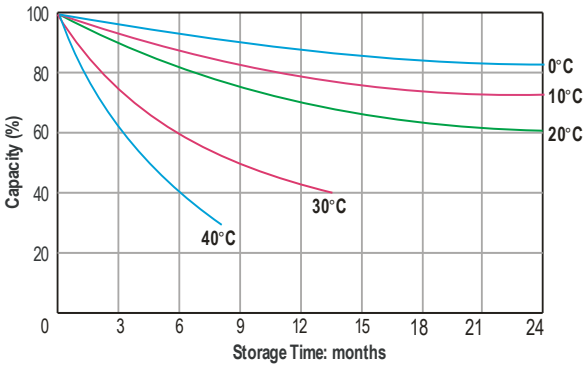
Charging Voltage V.S. Temperature



Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic