

OPzV250

2V250Ah / 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 2.6A to 1.85Vpc	312 Ah
10 hr rate 25A to 1.80Vpc	250 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.78 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	37.5 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

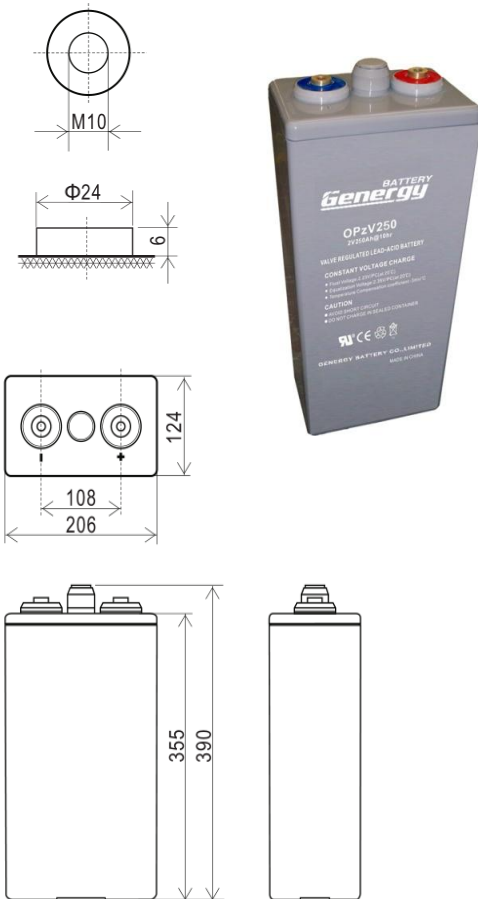
- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	315	235	148	67	47.3	26.5	12.3	6.9	2.9
1.70	285	214	139	65	44.8	26.0	12.0	6.8	2.9
1.75	269	203	130	64	43.6	25.5	11.8	6.6	2.8
1.80	253	191	128	63	41.9	25.0	11.6	6.5	2.8
1.85	236	174	122	61.1	40.9	23.6	10.9	6.1	2.6

Battery Picture & Terminal Layout

Terminal Type: T28



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
206 mm	124 mm	355 mm	390 mm	21.5 kg
8.1 inch	4.9 inch	14.0 inch	15.4 inch	47.4 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	614	459	294	134	94.3	52.7	24.4	13.7	5.8
1.70	556	417	276	129	89.3	51.7	23.9	13.5	5.7
1.75	524	395	259	127	87.1	50.7	23.5	13.2	5.6
1.80	492	373	254	124	83.6	49.8	23.1	13.0	5.5
1.85	461	339	244	121.0	81.4	47.0	21.9	12.4	5.3

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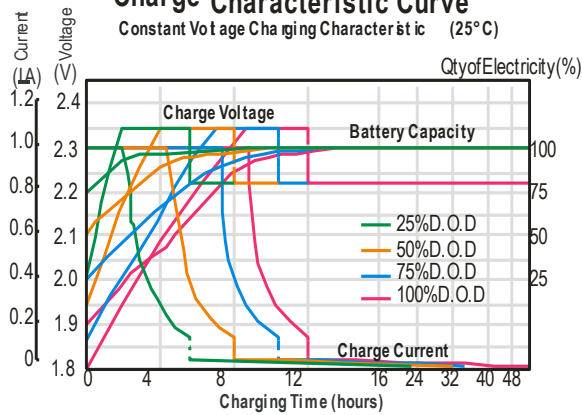
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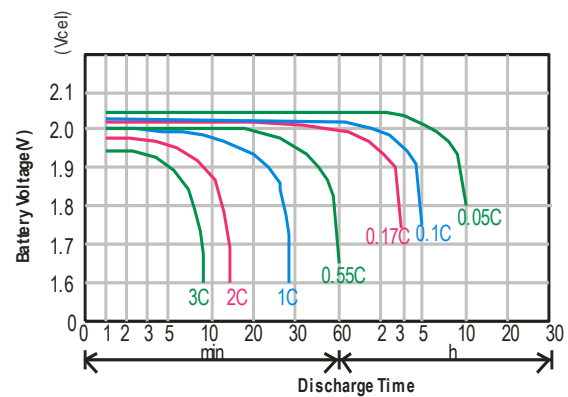
Graphs

Charge Characteristic Curve

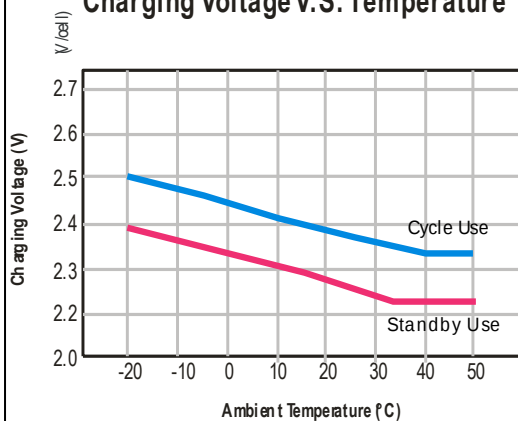
Constant Voltage Charging Characteristic (25°C)



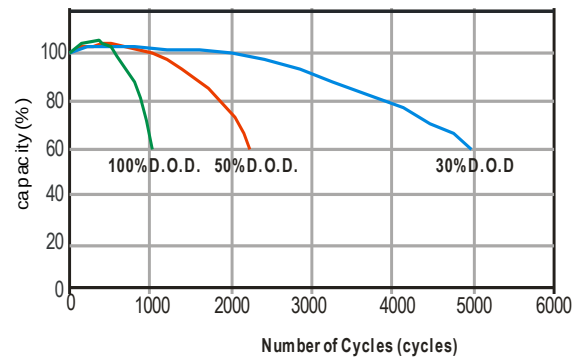
Discharge Characteristic (25°C)



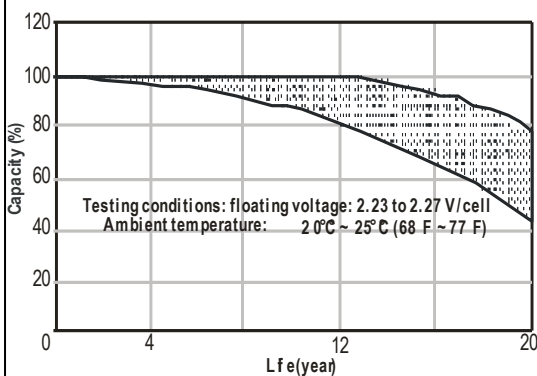
Charging Voltage V.S. Temperature



Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic

