

OPzV770

2V770Ah / 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 8.5A to 1.85Vpc	1020 Ah
10 hr rate 77.4A to 1.80Vpc	774h
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.37 mΩ
Max. Discharge Current @ 25°C /77°F	3850 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	115.5 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

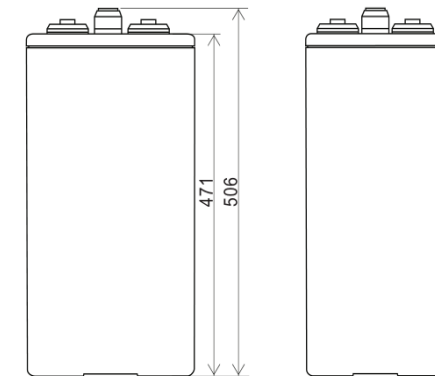
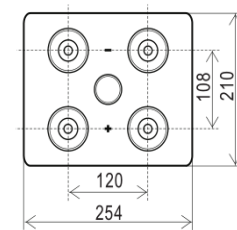
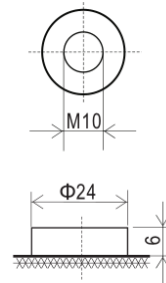
- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	970	724	454	207	145	80.1	38.8	21.7	9.20
1.70	878	658	427	200	137	79.4	38.2	21.4	9.12
1.75	828	624	404	198	135	78.5	38.0	21.2	9.06
1.80	778	589	393	193	130	77.0	37.6	20.9	9.01
1.85	728	535	376	189	126	72.8	35.8	20.0	8.47

Battery Picture & Terminal Layout

Terminal Type: T28



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
254 mm	210 mm	471 mm	506 mm	60 kg
10.0 inch	8.3 inch	18.5 inch	19.9 inch	132.3 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	1892	1412	903	412	290	159	77.6	43.4	18.4
1.70	1712	1258	851	399	275	158	77.1	43.1	18.3
1.75	1614	1217	797	394	267	157	76.5	42.6	18.2
1.80	1517	1149	782	384	257	153	74.9	41.7	17.8
1.85	1419	1043	749	375	250	145	71.2	39.8	16.8

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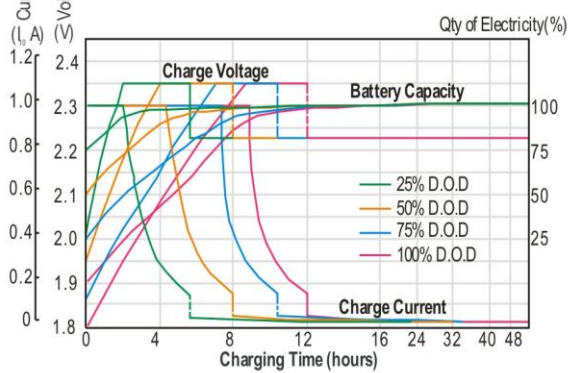
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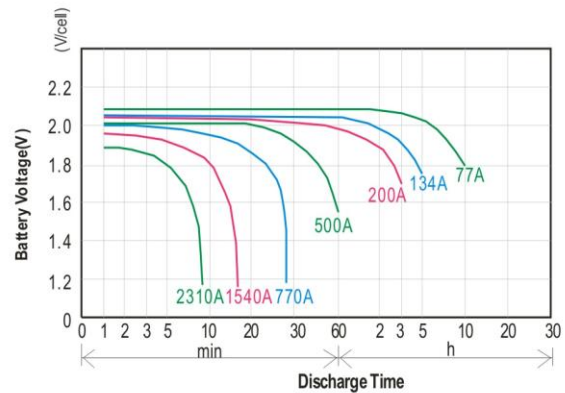
Graphs

Charge Characteristic Curve

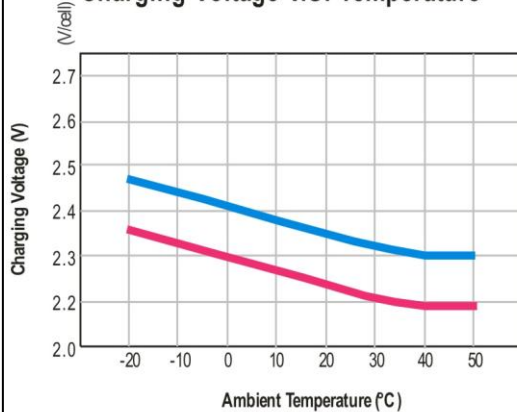
Constant Voltage Charging Characteristic (25°C)



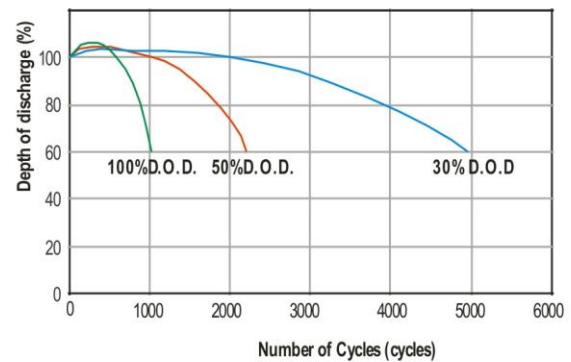
Discharge Characteristic (25°C)



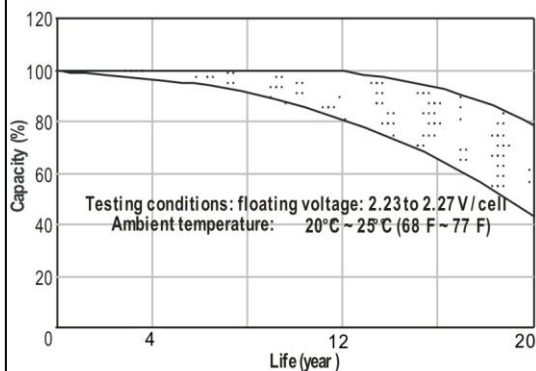
Charging Voltage V.S. Temperature



Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic

