

OPzV420

2V420Ah / 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 4.46A to 1.85Vpc	535 Ah
10 hr rate 42.2A to 1.80Vpc	422 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.51 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	63 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

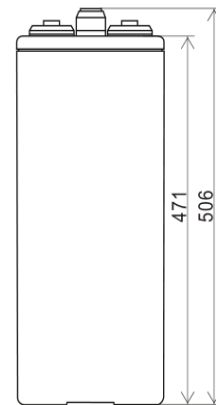
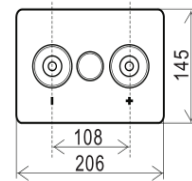
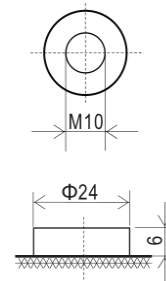
- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	529	395	248	113	79.1	43.8	21.1	11.8	5.02
1.70	479	359	233	109	74.7	43.3	20.9	11.7	4.98
1.75	451	340	218	107	73.6	42.8	20.8	11.5	4.94
1.80	424	321	214	105	70.9	42.0	20.5	11.4	4.90
1.85	397	291	205	103	68.7	39.7	19.5	10.9	4.64

Battery Picture & Terminal Layout

Terminal Type: T28



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
206 mm	145 mm	471 mm	506 mm	33 kg
8.1 inch	5.7 inch	18.5 inch	19.9 inch	72.8 lbs

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	24hr	48hr	120hr
1.65	1031	836	492	224	158	87	42.4	23.6	10.03
1.70	934	769	464	218	149	86	42.1	23.5	9.96
1.75	880	664	434	214	145	86	41.8	23.3	9.91
1.80	827	626	426	209	140	84	40.9	22.8	9.72
1.85	775	569	409	204	136	79.1	38.8	21.7	9.16

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Graphs

