

OPzV2500

2V2500Ah / 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	
120 hr rate 27.6A to 1.85Vpc	3312 Ah
10 hr rate 251.3A to 1.80Vpc	2513 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.13 mΩ
Max. Discharge Current @ 25°C /77°F	12500 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.38 ~ 2.42V
Max. Current	375 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).

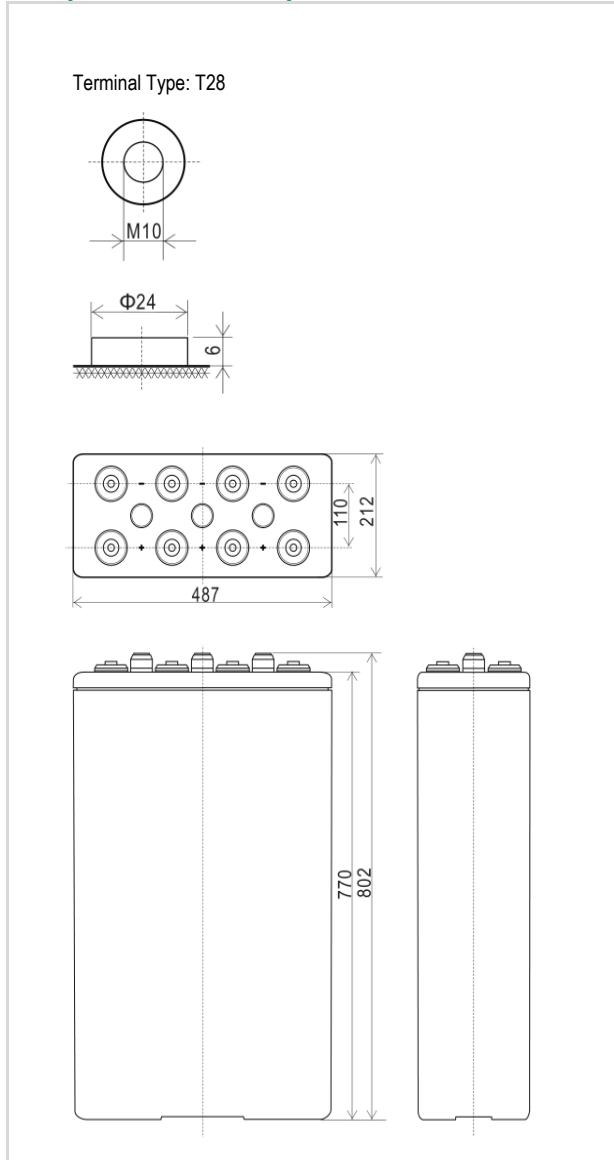
Typical Applications

- 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	3150	2350	1400	671	474	260	64.5	32.23	29.86
1.70	2850	2140	1390	650	449	258	64.0	31.91	29.63
1.75	2690	2030	1300	643	425	255	63.5	31.72	29.43
1.80	2530	1910	1280	625	415	250	63.1	31.04	29.03
1.85	2360	1740	1220	612	408	236	60.3	30.02	27.63

Battery Picture & Terminal Layout



Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height			
487 mm	212 mm	770 mm	802 mm	192 kg	
19.2 inch	8.3 inch	30.3 inch	31.6 inch	423.3 lbs	

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	48hr	100hr	120hr
1.65	6140	4590	2816	1340	944	516	134	90.1	56.3
1.70	5560	4170	2760	1290	893	514	131	89.4	56.1
1.75	5240	3950	2590	1280	871	506	129	88.9	55.8
1.80	4920	3730	2540	1240	836	499	125	87.2	54.7
1.85	4610	3390	2440	1210	814	470	119	83.0	52.0

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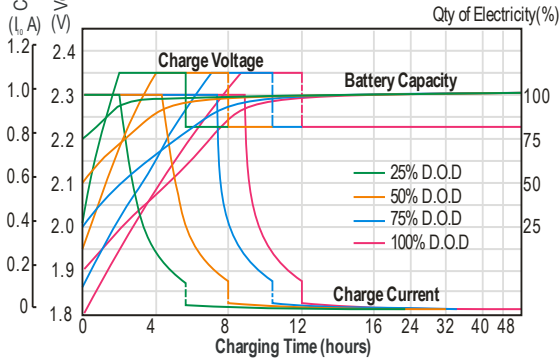
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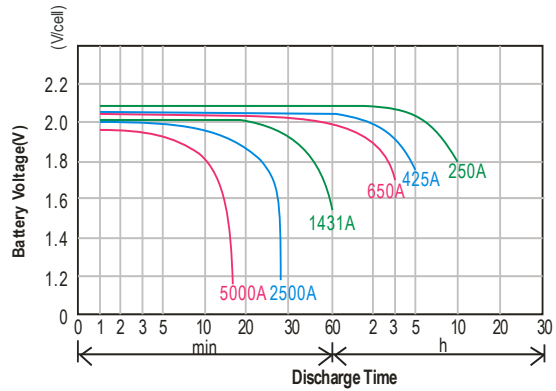
Graphs

Charge Characteristic Curve

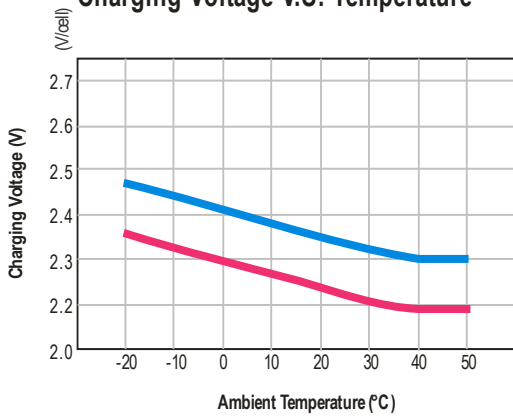
Constant Voltage Charging Characteristic (25°C)



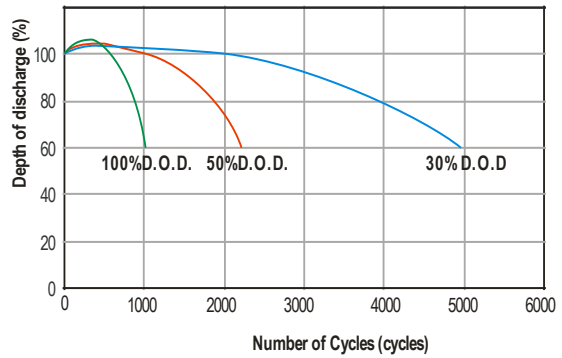
Discharge Characteristic (25°C)



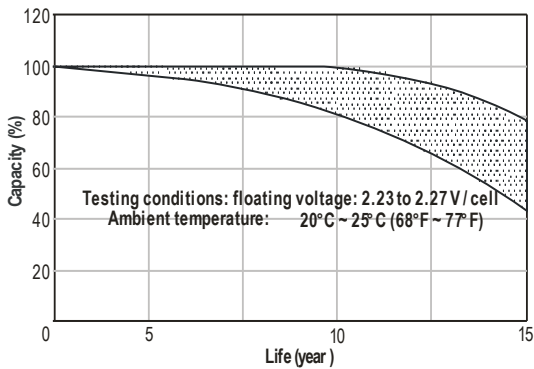
Charging Voltage V.S. Temperature



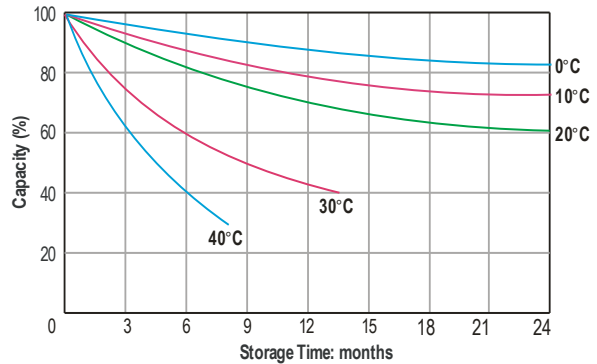
Cycle Service Life V.S. Depth Of Discharge



Life Characteristics Of Standby Use



Self-Discharge Characteristic



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