

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



## Energy Storage Battery-Tubular GEL Technology-OPzV Series

# OPzV3000E

(2V 3000Ah)

## GENERAL FEATURES

- ◆ 20 years design life at floating condition
- ◆ Wide operating temperature range from -40°C to +60°C
- ◆ Tubular positive plate with prolonged cycle life
- ◆ Fumed silica gel electrolyte
- ◆ lead-calcium grid significantly improves the corrosion resistance ability
- ◆ Low self-discharge rate and long shelf life
- ◆ Excellent deep discharge recovery capability



## Application

- ◆ Renewable energy system
- ◆ Hybrid solar power system
- ◆ Uninterrupted Power Supply (UPS)
- ◆ Communications and electric equipment
- ◆ Emergency lighting equipment
- ◆ Fire alarm and security systems
- ◆ Control equipment, and other factory automation equipment
- ◆ Emergency power supply (EPS)
- ◆ Lighting equipment

## Dimension

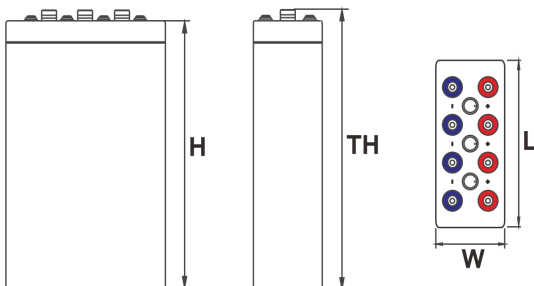
Unit:mm

Length 576±2mm / 22.68inch

Width 212±2mm / 8.35inch

Container Height 770±3mm / 30.31inch

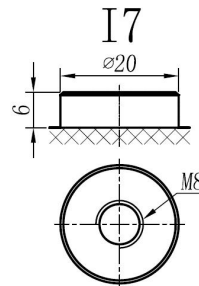
Total Height 802±3mm / 31.57inch



## Terminal

Unit:mm

Terminal Type: I7



## Weight

217kg 478.4lbs



ISO9001 ISO14001 OHSAS18001

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## OPzV3000E

### Specification

<b>Nominal Voltage</b>	2V	
<b>Rated Capacity(25°C)</b>	3180Ah	20hr Rate(1.80V/cell)
	3000Ah	10hr Rate(1.80V/cell)
	2618Ah	5hr Rate(1.75V/cell)
	2348Ah	3hr Rate(1.70V/cell)
	1795Ah	1hr Rate(1.60V/cell)
<b>Container Material</b>	ABS (Fire-proofing ABS container available)	
<b>Operating Temperature Range</b>	<b>Discharge</b>	-40 ~ +60°C
	<b>Charge</b>	0 ~ +40°C
	<b>Storage</b>	-20 ~ +40°C
<b>Capacity Effected by Temperature</b>	<b>40°C / 104°F</b>	106%
	<b>25°C / 77°F</b>	100%
	<b>0°C / 32°F</b>	86%
	<b>-20°C / -4°F</b>	60%
<b>Charge Voltage</b>	<b>Float Voltage</b>	2.23V/cell@25°C, Compensation Factor: -3mV/cell/°C
	<b>Equalize Voltage</b>	2.35 -2.40V/cell@25°C, Compensation Factor: -3mV/cell/°C
	<b>Cycle Voltage</b>	2.40 -2.50V/cell@25°C, Compensation Factor: -5mV/cell°C
<b>Max Charging Current</b>	600A (0.2C)	
<b>Max. Discharge Current (5S)</b>	18000A	
<b>Internal Resistance</b>	0.28mΩ	
<b>Self Discharge</b>	<3%, OPZV series stored at 25 °C require a supplementary charge every six months, the charging interval would shrink when the ambient temperature went higher	

### Discharge Performance

Constant Current Discharge Table (25°C/77°F) Unit: A

F.V/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	2151	1722	1359	935	713	492	351	290	153
1.80V/cell	2390	1898	1494	990	748	510	365	300	159
1.75V/cell	2552	2024	1573	1038	766	524	373	308	163
1.70V/cell	2705	2140	1653	1068	783	536	378	312	165
1.65V/cell	2850	2256	1719	1098	797	545	384	315	167
1.60V/cell	3007	2327	1795	1116	804	550	388	318	167

Constant Power Discharge Table (25°C/77°F) Unit: W

F.V/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	4043	3270	2605	1804	1384	959	688	571	304
1.80V/cell	4395	3531	2821	1896	1440	987	709	585	312
1.75V/cell	4622	3711	2942	1974	1465	1008	722	597	318
1.70V/cell	4822	3878	3070	2021	1490	1027	728	602	322
1.65V/cell	4993	4040	3168	2065	1511	1040	737	606	323
1.60V/cell	5183	4102	3276	2083	1518	1047	742	610	324



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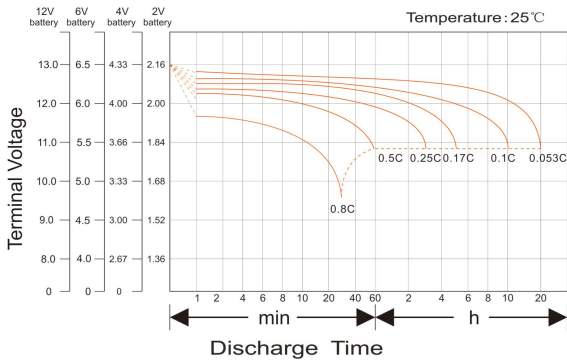


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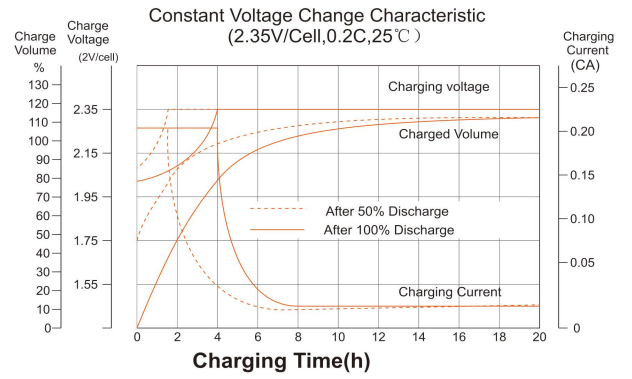


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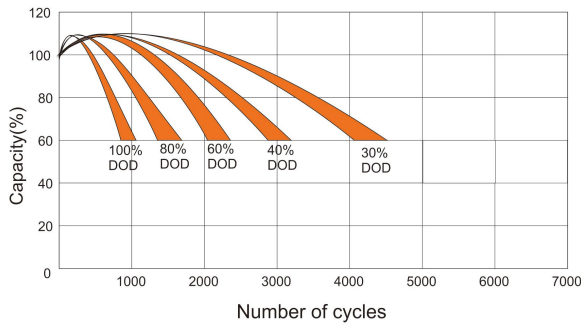
### Discharge Characteristics Curve



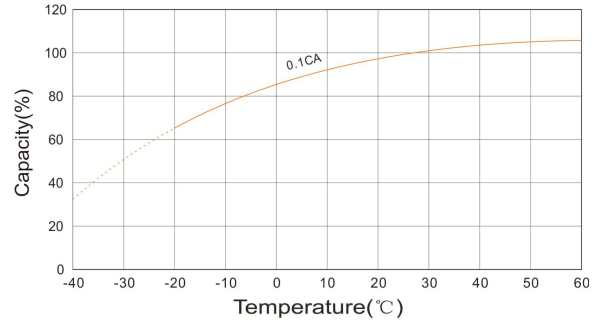
### Charging Characteristics Curve



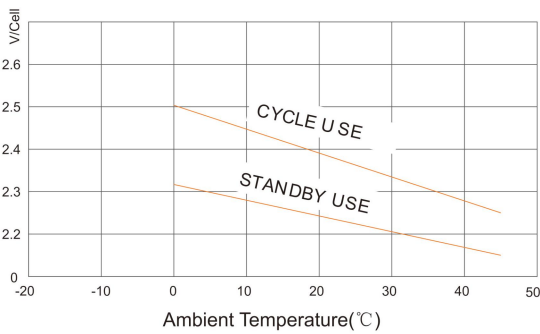
### Cycle life in relation to depth of Discharge



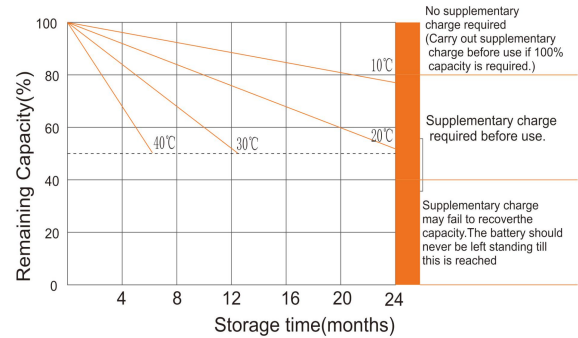
### Temperature effects on Capacity



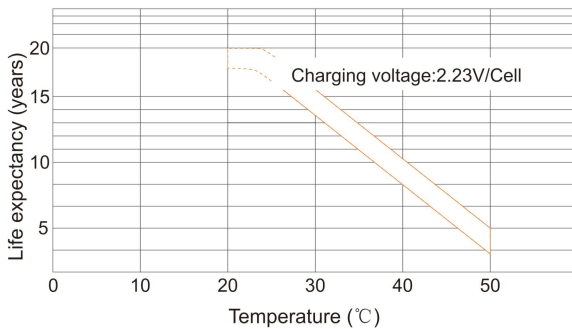
### Relationship between charging voltage and temperature



### Self-discharge Characteristics



### Temperature effects on Float life



### Life Characteristics of Standby use

