

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV2000E

(2V 2000Ah)

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

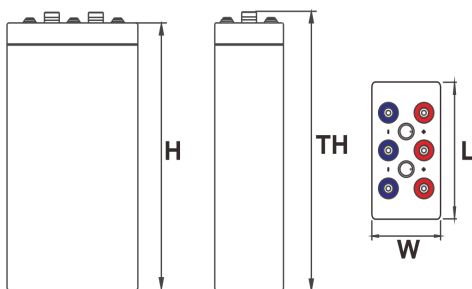
Unit:mm

Length 399±2mm / 15.71inch

Width 212±2mm / 8.35inch

Container Height 770±3mm / 30.31inch

Total Height 802±3mm / 31.57inch



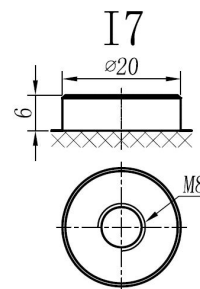
Terminal

Unit:mm

Terminal Type: I7

Weight

146kg 321.87lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	2120Ah	20hr Rate(1.80V/cell)
	2000Ah	10hr Rate(1.80V/cell)
	1746Ah	5hr Rate(1.75V/cell)
	1565Ah	3hr Rate(1.70V/cell)
	1197Ah	1hr Rate(1.60V/cell)
Container Material	ABS (Fire-proofing ABS container available)	
Operating Temperature Range	Discharge	-40 ~ +60°C
	Charge	0 ~ +40°C
	Storage	-20 ~ +40°C
Capacity Effected by Temperature	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-20°C / -4°F	60%
Charge Voltage	Float Voltage	2.23V/cell@25°C, Compensation Factor: -3mV/cell/°C
	Equalize Voltage	2.35 -2.40V/cell@25°C, Compensation Factor: -3mV/cell/°C
	Cycle Voltage	2.40 -2.50V/cell@25°C, Compensation Factor: -5mV/cell°C
Max Charging Current	400A (0.2C)	
Max. Discharge Current (5S)	12000A	
Internal Resistance	0.32mΩ	
Self Discharge	<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	1434	1148	906	623	476	328	234	194	102
1.80V/cell	1593	1265	996	660	499	340	243	200	106
1.75V/cell	1701	1349	1048	692	511	349	249	205	108
1.70V/cell	1803	1427	1102	712	522	357	252	208	110
1.65V/cell	1900	1504	1146	732	531	363	256	210	111
1.60V/cell	2004	1551	1197	744	536	367	258	212	112

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	2695	2180	1736	1203	923	640	458	381	202
1.80V/cell	2930	2354	1880	1264	960	658	473	390	208
1.75V/cell	3081	2474	1962	1316	977	672	481	398	212
1.70V/cell	3215	2586	2047	1347	993	685	486	401	215
1.65V/cell	3329	2693	2112	1377	1007	693	492	404	215
1.60V/cell	3455	2734	2184	1389	1012	698	495	407	216



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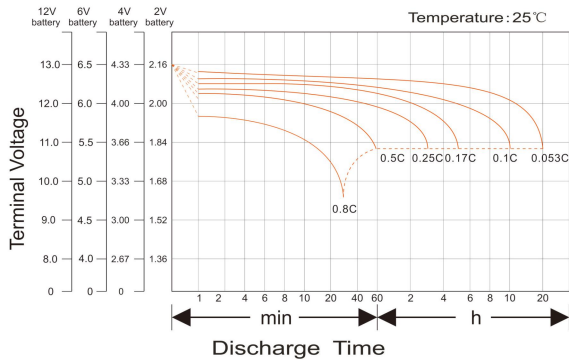


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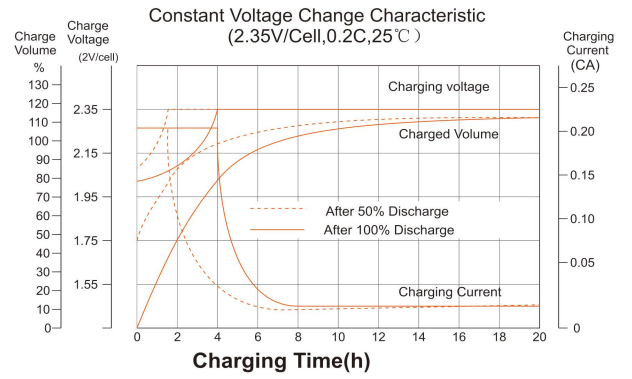


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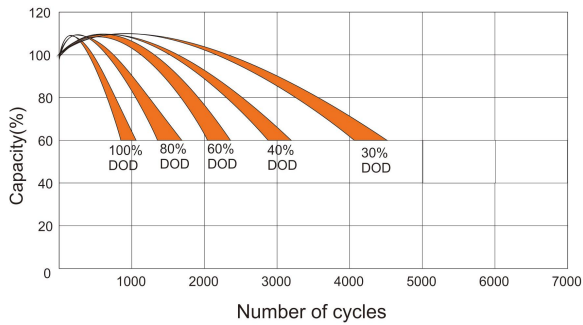
Discharge Characteristics Curve



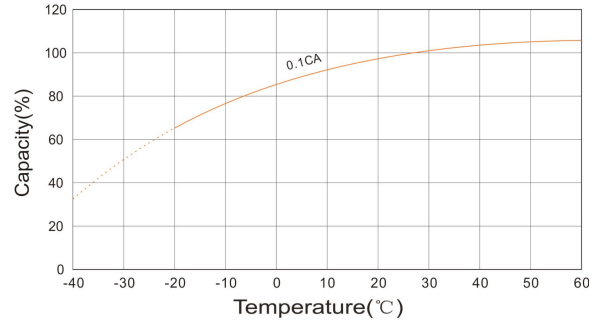
Charging Characteristics Curve



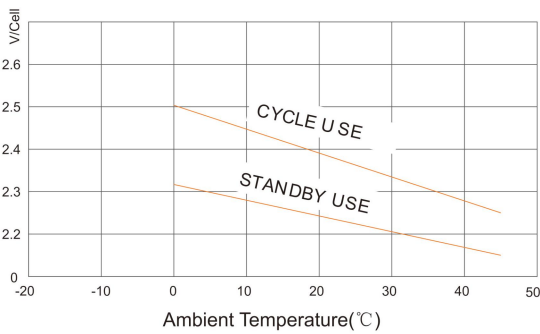
Cycle life in relation to depth of Discharge



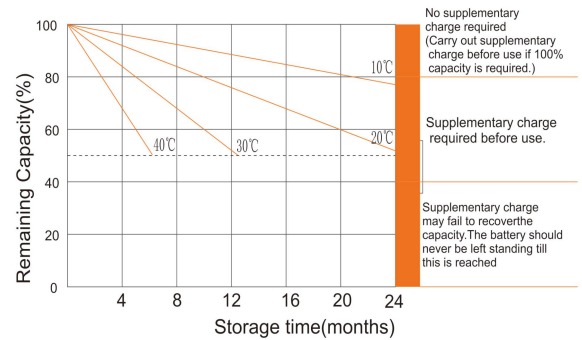
Temperature effects on Capacity



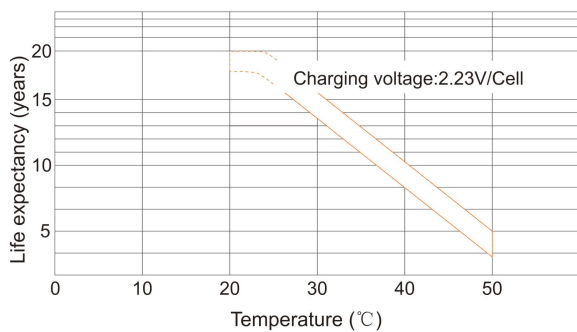
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

