

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV1500E

(2V 1500Ah)

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

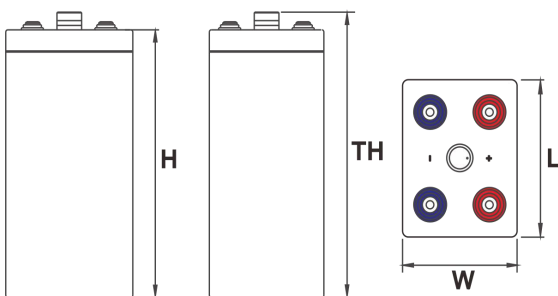
Unit:mm

Length 275±2mm / 10.83inch

Width 210±2mm / 8.27inch

Container Height 795±3mm / 31.3inch

Total Height 827±3mm / 32.56inch



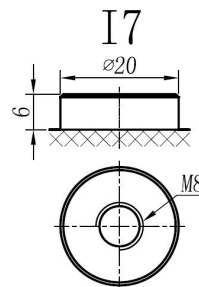
Terminal

Unit:mm

Terminal Type: I7

Weight

109kg 240.3lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	1590Ah	20hr Rate(1.80V/cell)
	1500Ah	10hr Rate(1.80V/cell)
	1309Ah	5hr Rate(1.75V/cell)
	1174Ah	3hr Rate(1.70V/cell)
	897Ah	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	300A (0.2C)	
Max. Discharge Current (5S)	9000A	
Internal Resistance	0.35mΩ	
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	1076	861	679	467	357	246	175	145	76.7
1.80V/cell	1195	949	747	495	374	255	182	150	79.5
1.75V/cell	1276	1012	786	519	383	262	187	154	81.3
1.70V/cell	1352	1070	827	534	391	268	189	156	82.7
1.65V/cell	1425	1128	860	549	398	272	192	157	83.3
1.60V/cell	1503	1163	897	558	402	275	194	159	83.7

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	2021	1635	1302	902	692	480	344	285	152
1.80V/cell	2197	1765	1410	948	720	493	355	293	156
1.75V/cell	2311	1856	1471	987	733	504	361	298	159
1.70V/cell	2411	1939	1535	1010	745	514	364	301	161
1.65V/cell	2497	2020	1584	1033	755	520	369	303	162
1.60V/cell	2591	2051	1638	1042	759	523	371	305	162



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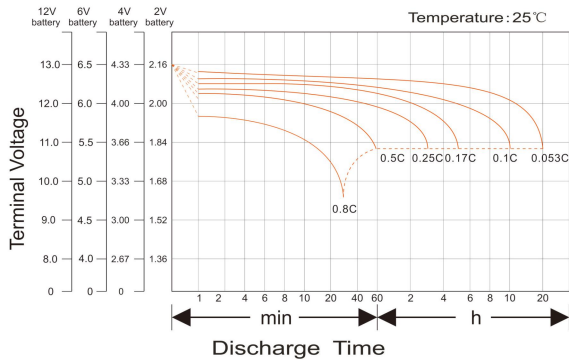


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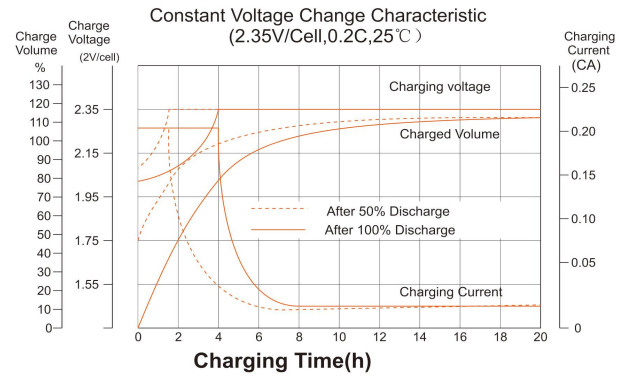


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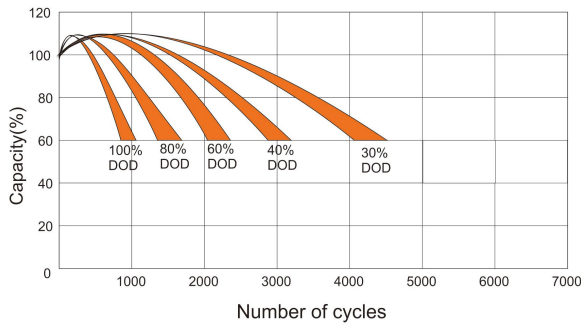
Discharge Characteristics Curve



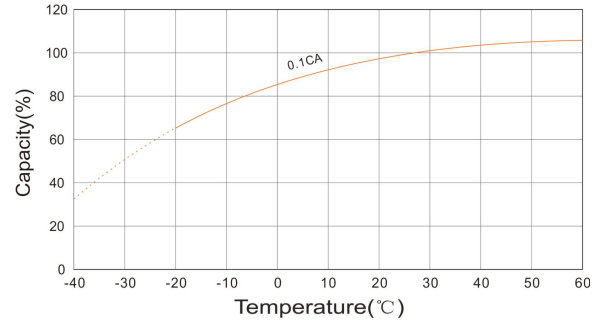
Charging Characteristics Curve



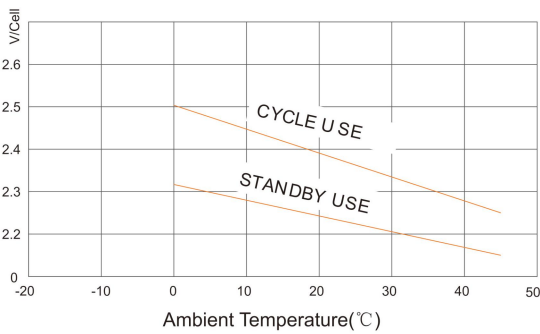
Cycle life in relation to depth of Discharge



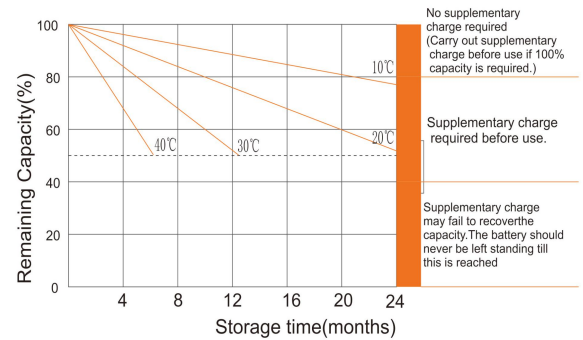
Temperature effects on Capacity



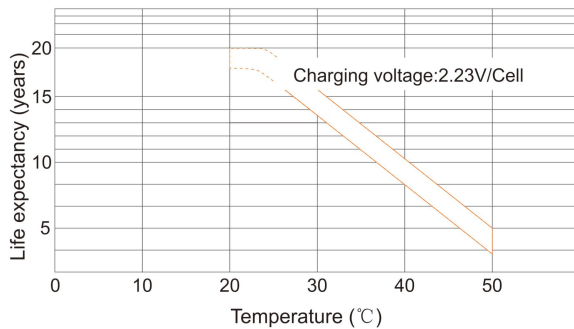
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

