

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV1000E

(2V 1000Ah)

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



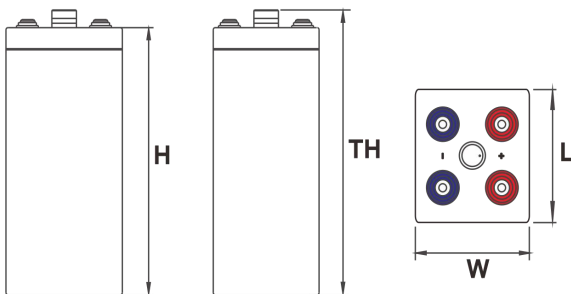
Application

- ◆ 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	233±2mm	/	9.17inch
Width	210±2mm	/	8.27inch
Container Height	646±3mm	/	25.43inch
Total Height	678±3mm	/	26.69inch



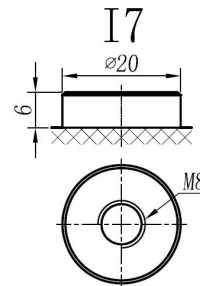
Terminal

Unit:mm

Terminal Type: I7

Weight

74kg 163.14lbs



ISO9001 ISO14001 OHSAS18001

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	1060Ah	20hr Rate(1.80V/cell)
	1000Ah	10hr Rate(1.80V/cell)
	873Ah	5hr Rate(1.75V/cell)
	783Ah	3hr Rate(1.70V/cell)
	598Ah	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	200A (0.2C)	
Max. Discharge Current (5S)	6000A	
Internal Resistance	0.38mΩ	
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	717	574	453	312	238	164	117	96.8	51.1
1.80V/cell	797	633	498	330	249	170	122	100	53.0
1.75V/cell	851	675	524	346	255	175	124	103	54.2
1.70V/cell	902	713	551	356	261	179	126	104	55.1
1.65V/cell	950	752	573	366	266	182	128	105	55.6
1.60V/cell	1002	776	598	372	268	183	129	106	55.8

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	1348	1090	868	601	461	320	229	190	101
1.80V/cell	1465	1177	940	632	480	329	236	195	104
1.75V/cell	1541	1237	981	658	488	336	241	199	106
1.70V/cell	1607	1293	1023	674	497	342	243	201	107
1.65V/cell	1664	1347	1056	688	504	347	246	202	108
1.60V/cell	1728	1367	1092	694	506	349	247	203	108



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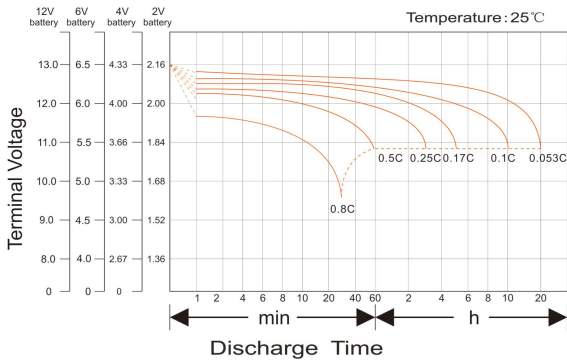


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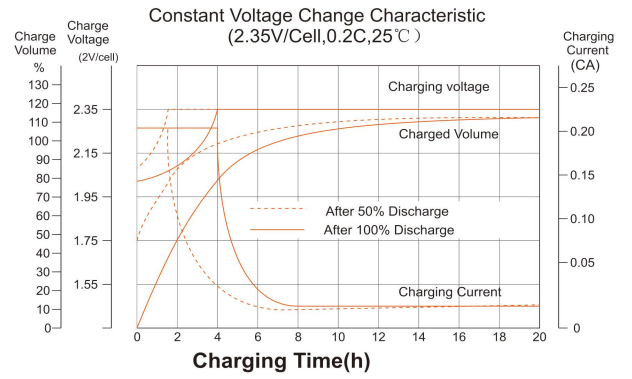


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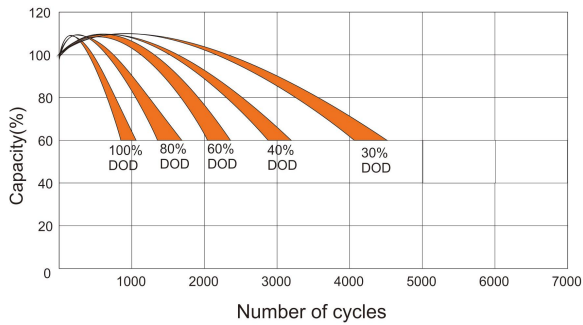
Discharge Characteristics Curve



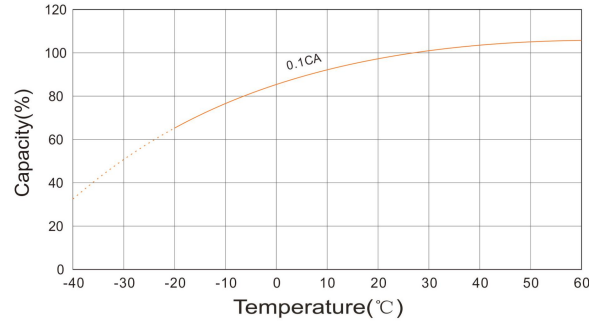
Charging Characteristics Curve



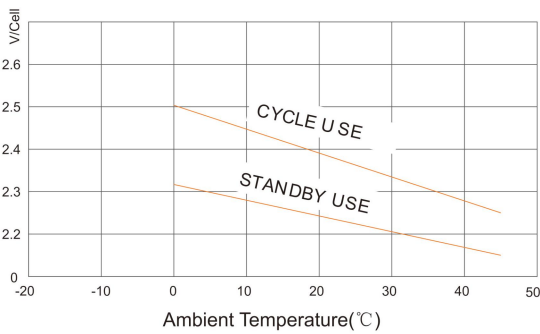
Cycle life in relation to depth of Discharge



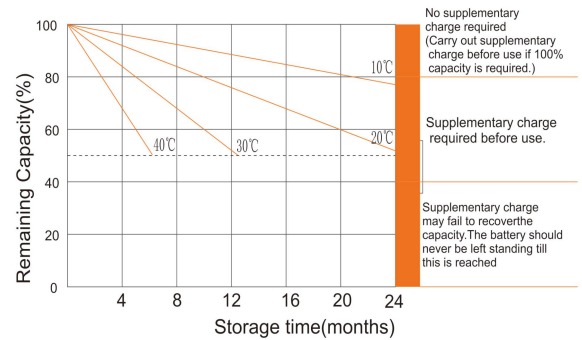
Temperature effects on Capacity



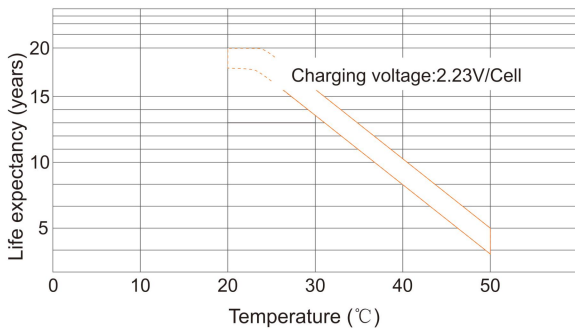
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

