

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV1000

(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



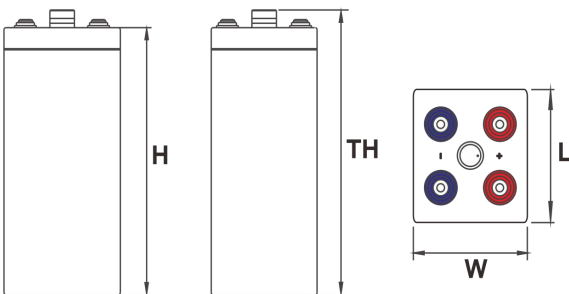
Application

- ◆ 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



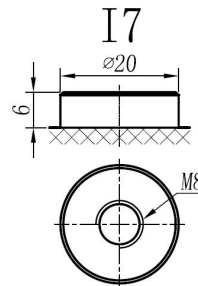
Terminal

Unit:mm

Terminal Type: I7

Weight

77.5kg 170.86lbs



This document is subject to change without prior notification

Motive Battery Energy Storage Battery Reserve Battery Motorcycle Battery

OPzV1000

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	755	604	453	312	238	164	117	96.8	51.1
1.80V/cell	839	666	498	330	249	170	122	100	53.0
1.75V/cell	896	710	524	346	255	175	124	103	54.2
1.70V/cell	949	751	551	356	261	179	126	104	55.1
1.65V/cell	1000	791	573	366	266	182	128	105	55.6
1.60V/cell	1055	816	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	1418	1148	868	601	461	320	229	190	101
1.80V/cell	1542	1239	940	632	480	329	236	195	104
1.75V/cell	1622	1302	981	658	488	336	241	199	106
1.70V/cell	1692	1361	1023	674	497	342	243	201	107
1.65V/cell	1752	1417	1056	688	504	347	246	202	108
1.60V/cell	1819	1439	1092	694	506	349	247	203	108



Motive



Energy Storage Battery

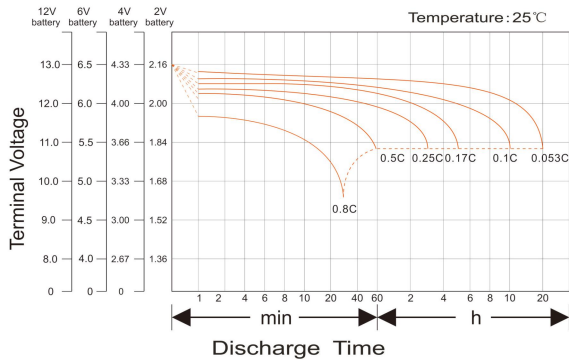


Reserve Battery

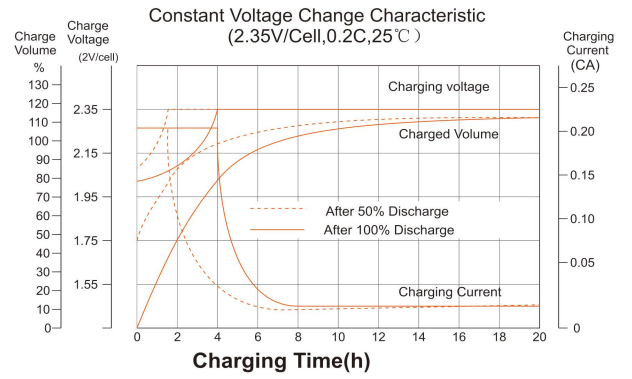


Motorcycle Battery

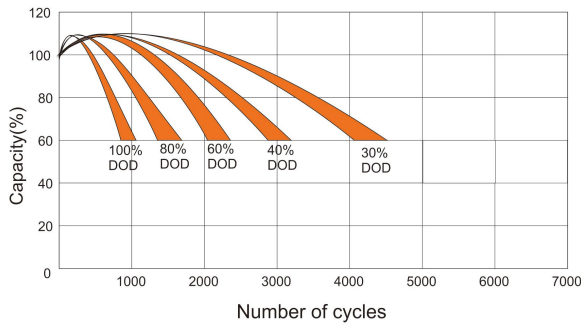
Discharge Characteristics Curve



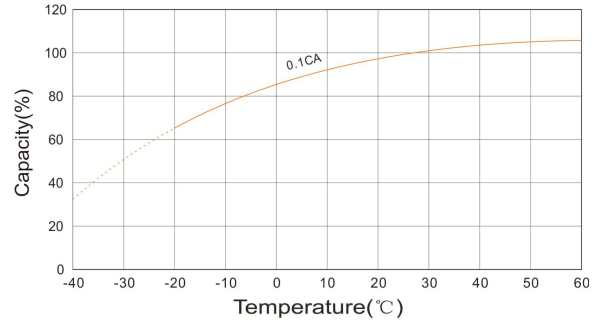
Charging Characteristics Curve



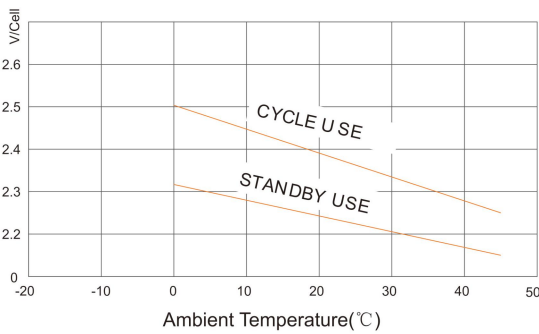
Cycle life in relation to depth of Discharge



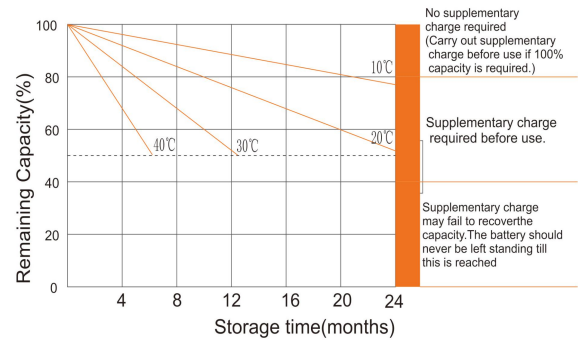
Temperature effects on Capacity



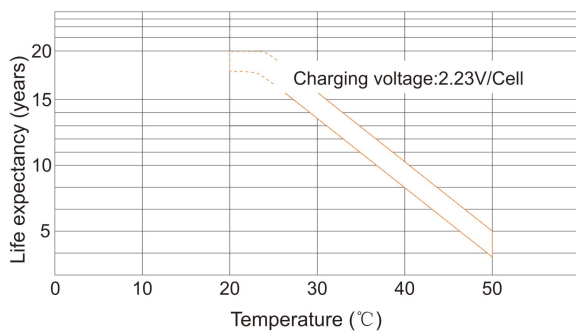
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

