

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



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

# OPzV1200E

(2V 1200Ah)

## 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

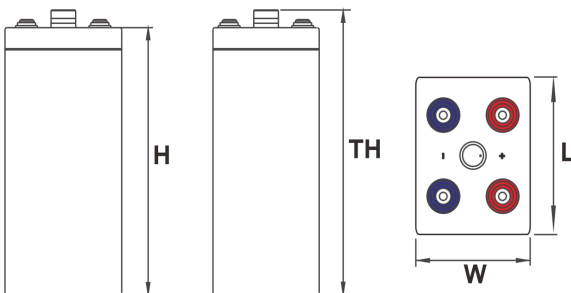
## Application

- ◆ 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	646±3mm / 25.43inch
Total Height	678±3mm / 26.69inch



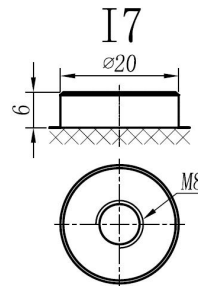
## Terminal

Unit:mm

Terminal Type: I7

## Weight

87.9kg 193.78lbs



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## OPzV1200E

### Specification

<b>Nominal Voltage</b>	2V	
<b>Rated Capacity(25°C)</b>	1272Ah	20hr Rate(1.80V/cell)
	1200Ah	10hr Rate(1.80V/cell)
	1047Ah	5hr Rate(1.75V/cell)
	939Ah	3hr Rate(1.70V/cell)
	718Ah	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>	240A (0.2C)	
<b>Max. Discharge Current (5S)</b>	7200A	
<b>Internal Resistance</b>	0.35mΩ	
<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	861	689	543	374	285	197	140	116	61.4
1.80V/cell	956	759	598	396	299	204	146	120	63.6
1.75V/cell	1021	809	629	415	306	209	149	123	65.0
1.70V/cell	1082	856	661	427	313	214	151	125	66.1
1.65V/cell	1140	902	688	439	319	218	154	126	66.7
1.60V/cell	1203	931	718	446	321	220	155	127	67.0

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	1617	1308	1042	722	554	384	275	228	121
1.80V/cell	1758	1412	1128	758	576	395	284	234	125
1.75V/cell	1849	1484	1177	790	586	403	289	239	127
1.70V/cell	1929	1551	1228	808	596	411	291	241	129
1.65V/cell	1997	1616	1267	826	604	416	295	242	129
1.60V/cell	2073	1641	1310	833	607	419	297	244	129



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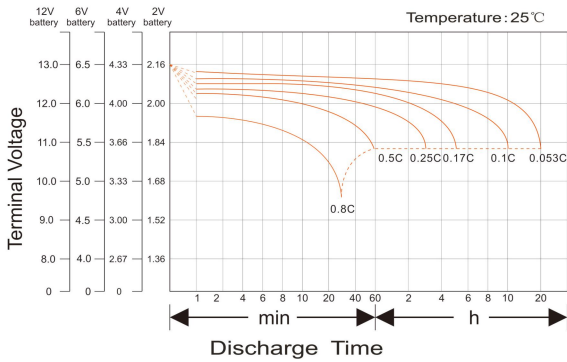


Reserve Battery

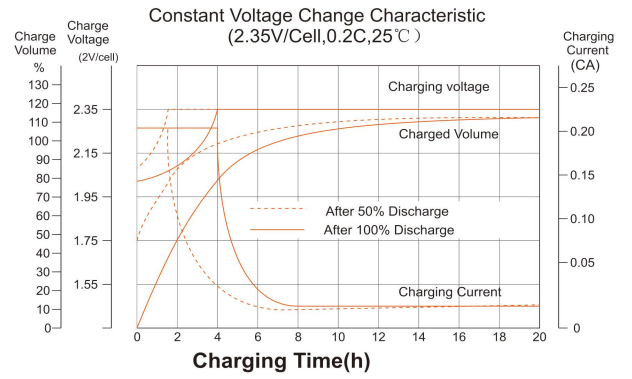


Motorcycle Battery

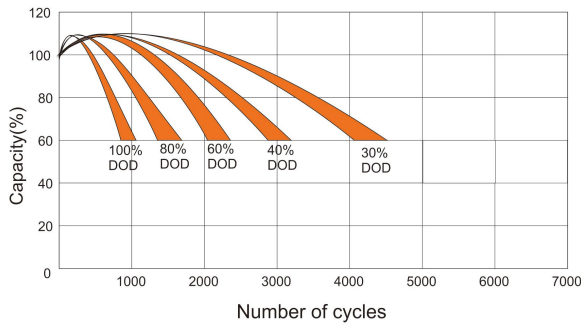
### Discharge Characteristics Curve



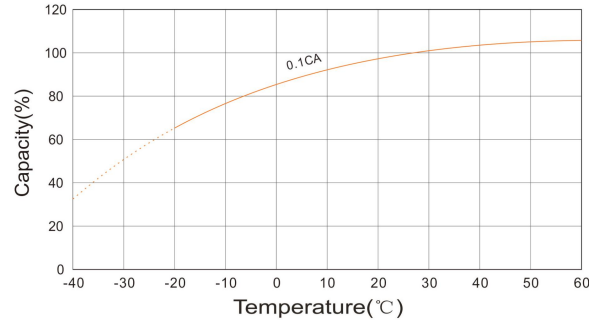
### Charging Characteristics Curve



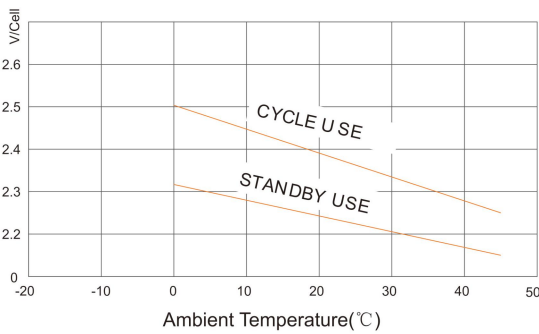
### Cycle life in relation to depth of Discharge



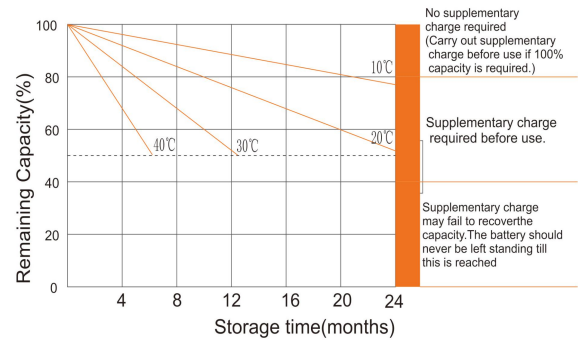
### Temperature effects on Capacity



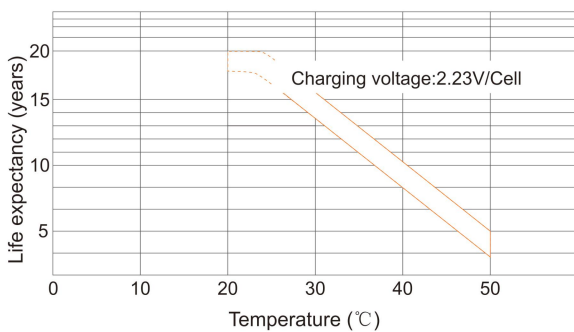
### Relationship between charging voltage and temperature



### Self-discharge Characteristics



### Temperature effects on Float life



### Life Characteristics of Standby use

