

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



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

# OPzV350

(2V 350Ah)

## 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



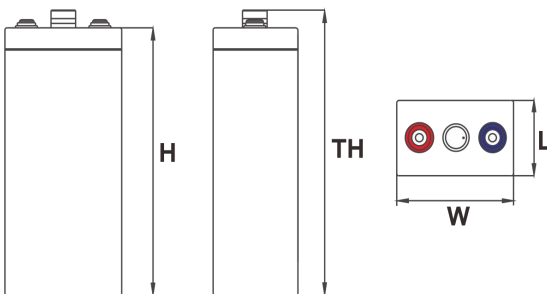
## Application

- ◆ 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	124±2mm / 4.88inch
Width	206±2mm / 8.11inch
Container Height	473±3mm / 18.62inch
Total Height	505±3mm / 19.88inch



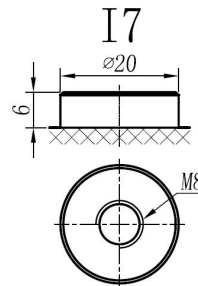
## Terminal

Unit:mm

Terminal Type: I7

## Weight

28.5kg 62.83lbs



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## OPzV350

### Specification

<b>Nominal Voltage</b>	2V	
<b>Rated Capacity(25°C)</b>	371Ah	20hr Rate(1.80V/cell)
	350Ah	10hr Rate(1.80V/cell)
	305Ah	5hr Rate(1.75V/cell)
	274Ah	3hr Rate(1.70V/cell)
	209Ah	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>	70A (0.2C)	
<b>Max. Discharge Current (5S)</b>		
<b>Internal Resistance</b>	0.6mΩ	
<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	264	211	159	109	83.2	57.4	40.9	33.9	17.9
1.80V/cell	293	233	174	116	87.3	59.5	42.6	35.0	18.6
1.75V/cell	313	249	183	121	89.4	61.1	43.5	35.9	19.0
1.70V/cell	332	263	193	125	91.3	62.5	44.1	36.3	19.3
1.65V/cell	350	277	201	128	93.0	63.5	44.8	36.7	19.4
1.60V/cell	369	286	209	130	93.8	64.2	45.2	37.1	19.5

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	496	402	304	210	161	112	80.2	66.6	35.4
1.80V/cell	540	434	329	221	168	115	82.7	68.3	36.4
1.75V/cell	568	456	343	230	171	118	84.2	69.6	37.1
1.70V/cell	592	476	358	236	174	120	85.0	70.2	37.5
1.65V/cell	613	496	370	241	176	121	86.0	70.7	37.7
1.60V/cell	636	504	382	243	177	122	86.5	71.2	37.8



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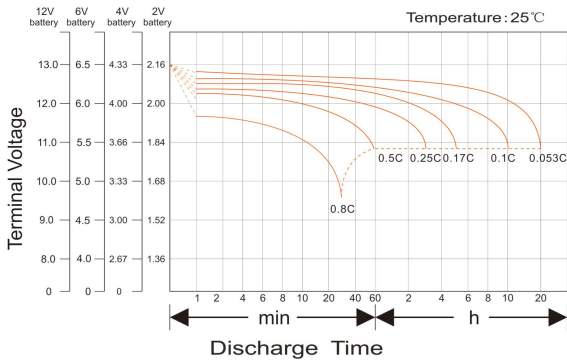


Reserve Battery

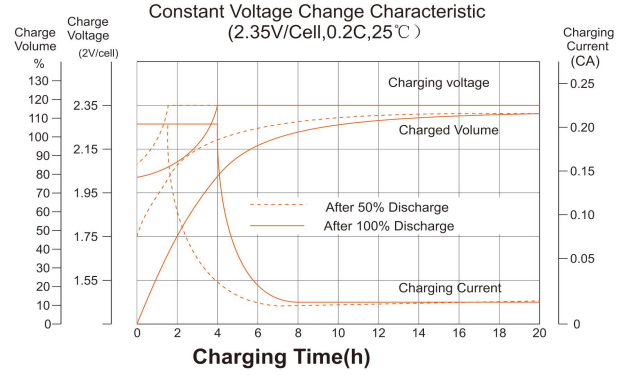


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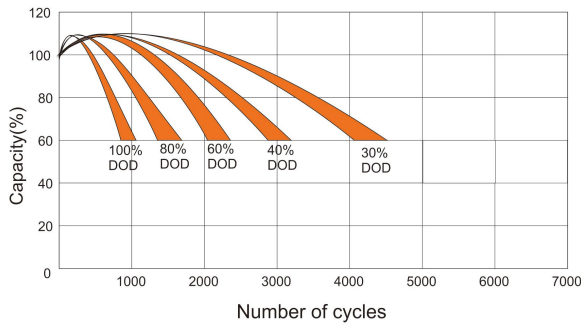
### Discharge Characteristics Curve



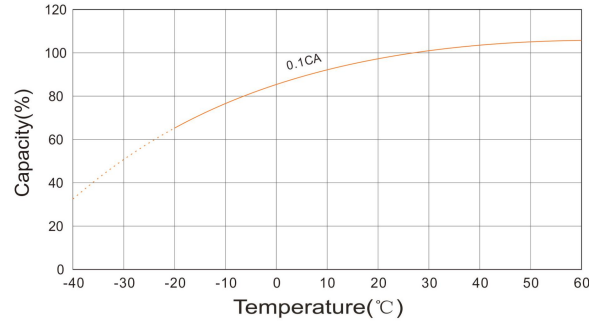
### Charging Characteristics Curve



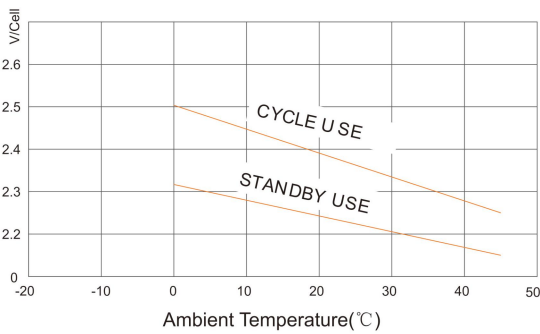
### Cycle life in relation to depth of Discharge



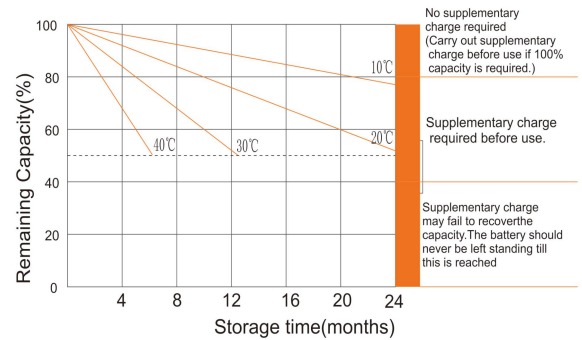
### Temperature effects on Capacity



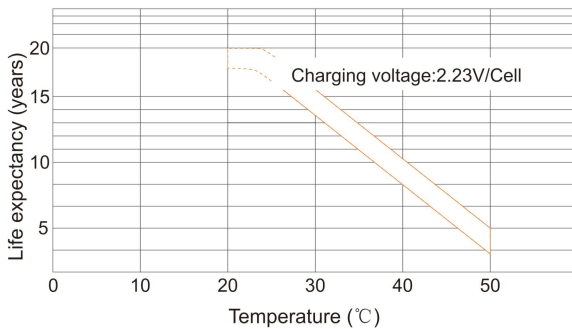
### Relationship between charging voltage and temperature



### Self-discharge Characteristics



### Temperature effects on Float life



### Life Characteristics of Standby use

