

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV250

(2V 250Ah)

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



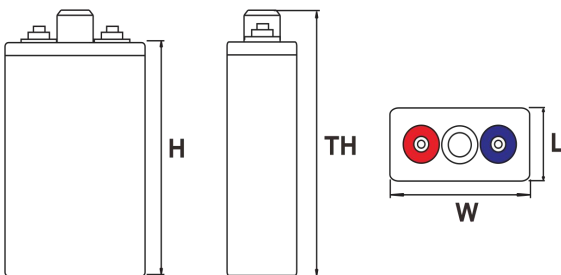
Application

- ◆ 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	356±3mm / 14.02inch
Total Height	389±3mm / 15.31inch



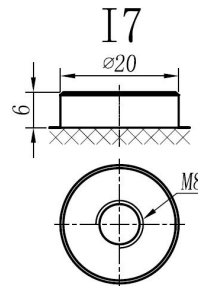
Terminal

Unit:mm

Terminal Type: I7

Weight

23kg 50.71lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	265Ah	20hr Rate(1.80V/cell)
	250Ah	10hr Rate(1.80V/cell)
	218Ah	5hr Rate(1.75V/cell)
	196Ah	3hr Rate(1.70V/cell)
	150Ah	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	50A (0.2C)	
Max. Discharge Current (5S)	1500A	
Internal Resistance	0.73mΩ	
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	189	151	113	77.9	59.4	41.0	29.2	24.2	12.8
1.80V/cell	210	167	125	82.5	62.3	42.5	30.4	25.0	13.3
1.75V/cell	224	178	131	86.5	63.8	43.6	31.1	25.6	13.6
1.70V/cell	237	188	138	89.0	65.2	44.6	31.5	26.0	13.8
1.65V/cell	250	198	143	91.5	66.4	45.4	32.0	26.2	13.9
1.60V/cell	264	204	150	93.0	67.0	45.8	32.3	26.5	14.0

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	355	287	217	150	115	79.9	57.3	47.6	25.3
1.80V/cell	386	310	235	158	120	82.2	59.1	48.8	26.0
1.75V/cell	405	326	245	165	122	84.0	60.2	49.7	26.5
1.70V/cell	423	340	256	168	124	85.6	60.7	50.2	26.8
1.65V/cell	438	354	264	172	126	86.7	61.4	50.5	26.9
1.60V/cell	455	360	273	174	127	87.2	61.8	50.8	27.0



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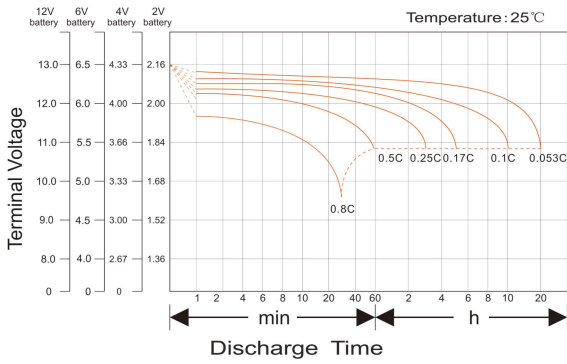


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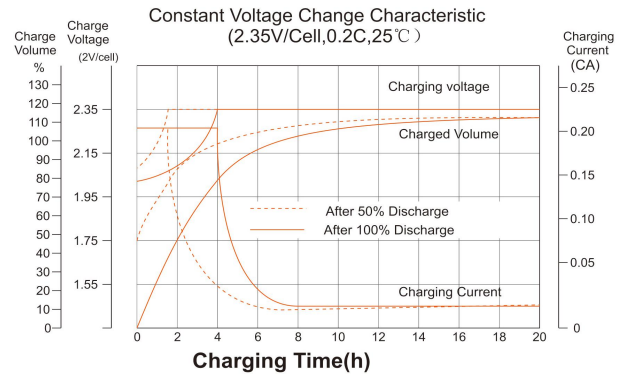


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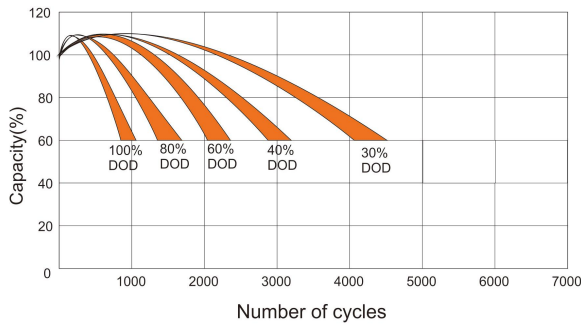
Discharge Characteristics Curve



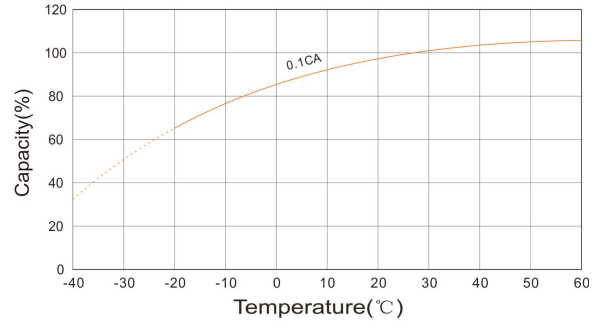
Charging Characteristics Curve



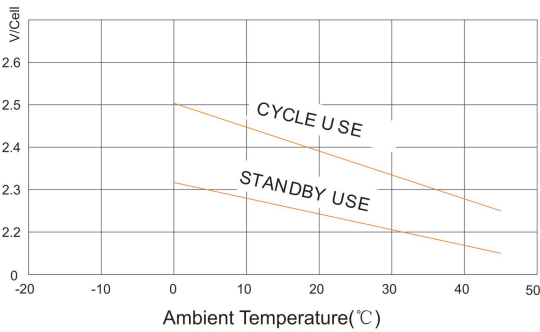
Cycle life in relation to depth of Discharge



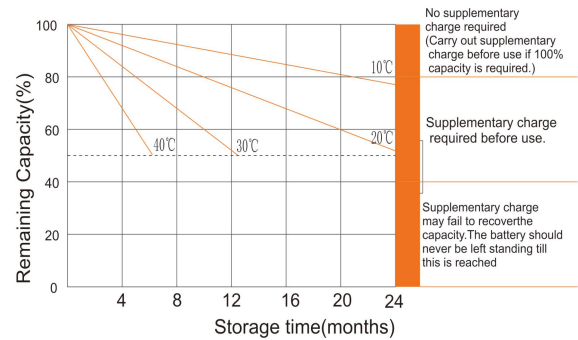
Temperature effects on Capacity



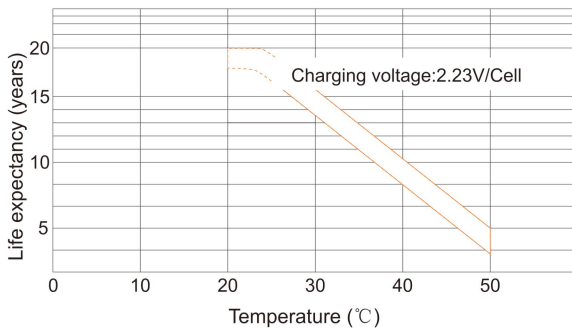
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

