

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV3000

(2V 3000Ah)

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

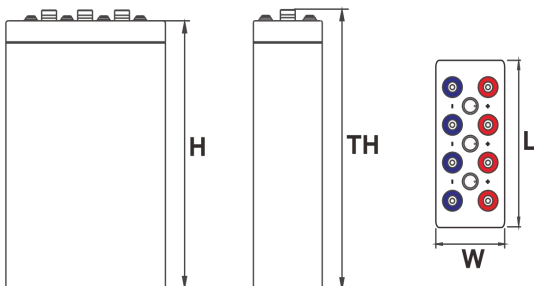
Unit:mm

Length 576±2mm / 22.68inch

Width 212±2mm / 8.35inch

Container Height 770±3mm / 30.31inch

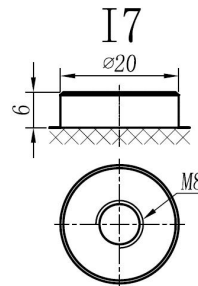
Total Height 802±3mm / 31.57inch



Terminal

Unit:mm

Terminal Type: I7



Weight

226kg 498.24lbs



This document is subject to change without prior notification

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	3180Ah	20hr Rate(1.80V/cell)
	3000Ah	10hr Rate(1.80V/cell)
	2618Ah	5hr Rate(1.75V/cell)
	2348Ah	3hr Rate(1.70V/cell)
	1795Ah	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	600A (0.2C)	
Max. Discharge Current (5S)	18000A	
Internal Resistance	0.28mΩ	
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	2265	1813	1359	935	713	492	351	290	153
1.80V/cell	2516	1998	1494	990	748	510	365	300	159
1.75V/cell	2687	2130	1573	1038	766	524	373	308	163
1.70V/cell	2847	2253	1653	1068	783	536	378	312	165
1.65V/cell	3000	2374	1719	1098	797	545	384	315	167
1.60V/cell	3165	2449	1795	1116	804	550	388	318	167

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	4255	3443	2605	1804	1384	959	688	571	304
1.80V/cell	4626	3716	2821	1896	1440	987	709	585	312
1.75V/cell	4865	3906	2942	1974	1465	1008	722	597	318
1.70V/cell	5076	4082	3070	2021	1490	1027	728	602	322
1.65V/cell	5256	4252	3168	2065	1511	1040	737	606	323
1.60V/cell	5456	4318	3276	2083	1518	1047	742	610	324



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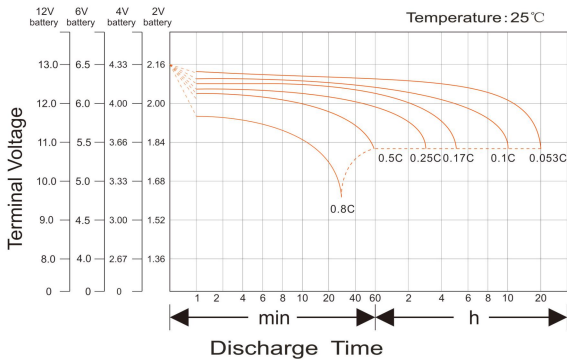


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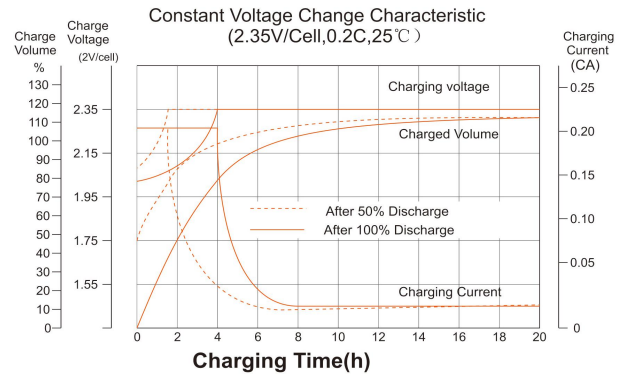


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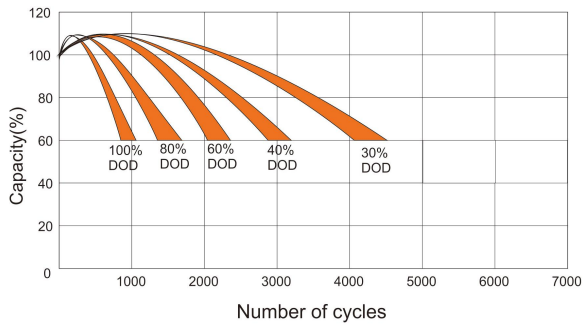
Discharge Characteristics Curve



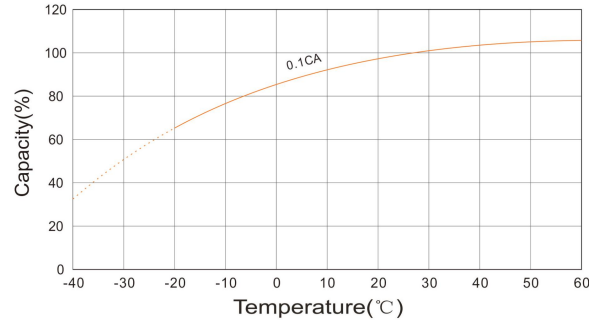
Charging Characteristics Curve



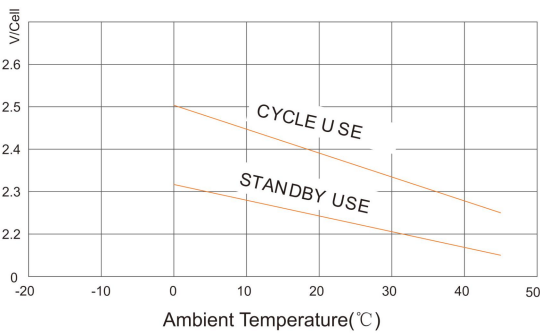
Cycle life in relation to depth of Discharge



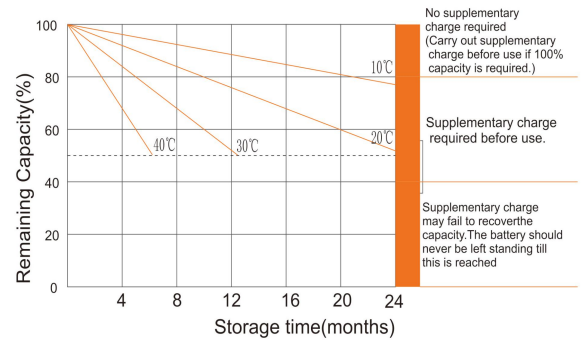
Temperature effects on Capacity



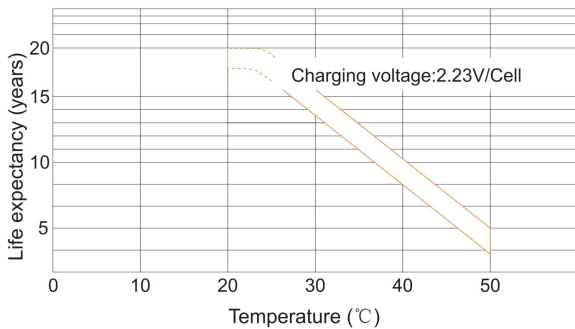
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

