

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV2500

(2V 2500Ah)

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

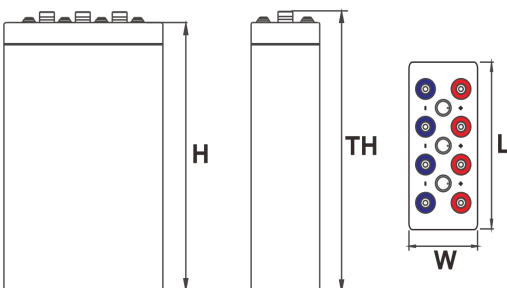
Unit:mm

Length 487±2mm / 19.17inch

Width 212±2mm / 8.35inch

Container Height 770±3mm / 30.31inch

Total Height 802±3mm / 31.57inch



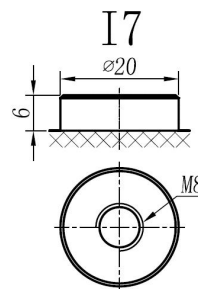
Terminal

Unit:mm

Terminal Type: I7

Weight

189kg 416.67lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	2650Ah	20hr Rate(1.80V/cell)
	2500Ah	10hr Rate(1.80V/cell)
	2182Ah	5hr Rate(1.75V/cell)
	1956Ah	3hr Rate(1.70V/cell)
	1496Ah	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	500A (0.2C)	
Max. Discharge Current (5S)	15000A	
Internal Resistance	0.32mΩ	
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	1887	1511	1132	779	594	410	292	242	128
1.80V/cell	2096	1665	1245	825	623	425	304	250	133
1.75V/cell	2239	1775	1311	865	638	436	311	256	136
1.70V/cell	2373	1878	1378	890	652	446	315	260	138
1.65V/cell	2500	1979	1433	915	664	454	320	262	139
1.60V/cell	2637	2041	1496	930	670	458	323	265	140

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	3546	2869	2171	1503	1153	799	573	476	253
1.80V/cell	3855	3097	2351	1580	1200	822	591	488	260
1.75V/cell	4054	3255	2452	1645	1221	840	602	497	265
1.70V/cell	4230	3402	2559	1684	1242	856	607	502	268
1.65V/cell	4380	3544	2640	1721	1259	867	614	505	269
1.60V/cell	4546	3598	2730	1736	1265	872	618	508	270



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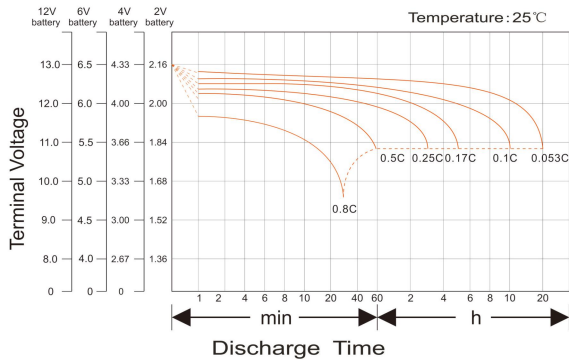


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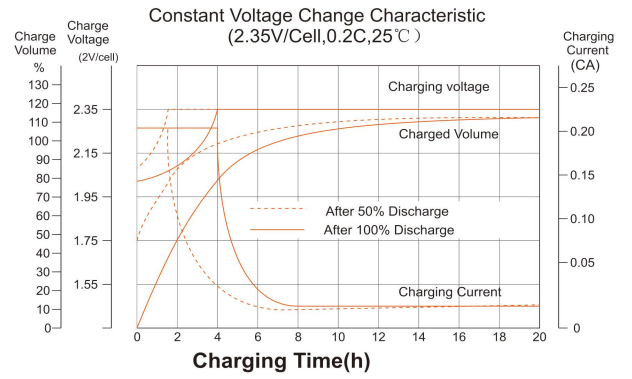


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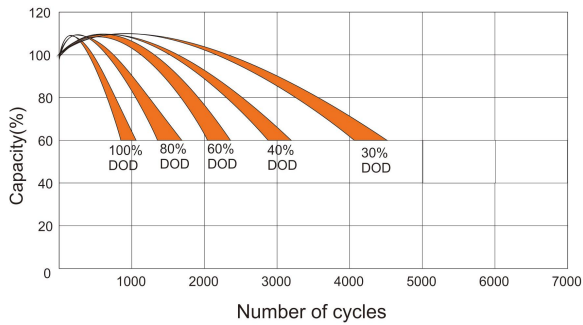
Discharge Characteristics Curve



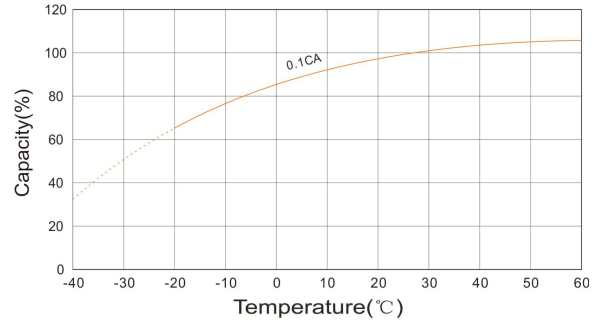
Charging Characteristics Curve



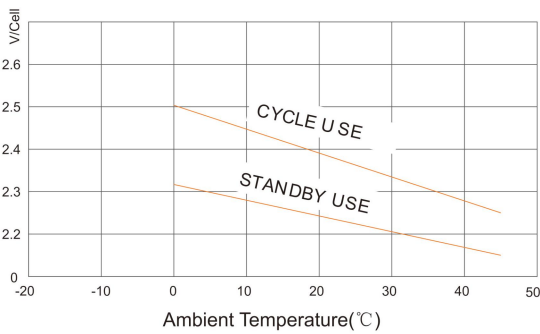
Cycle life in relation to depth of Discharge



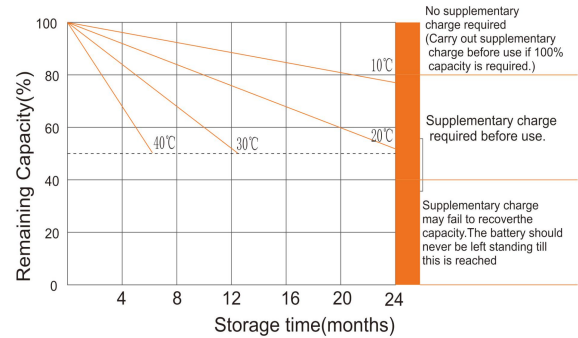
Temperature effects on Capacity



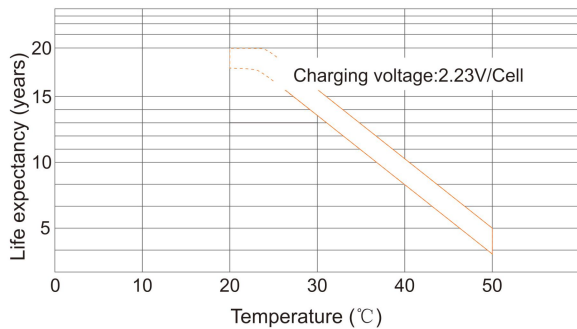
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

