

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV2500E

(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

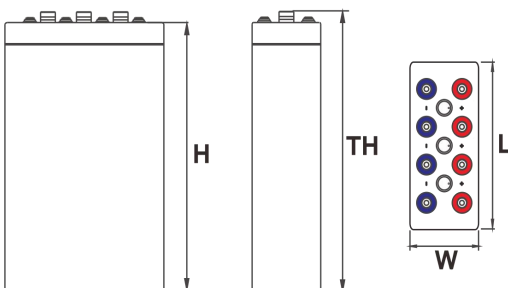
Unit:mm

Length 487±2mm / 19.17inch

Width 212±2mm / 8.35inch

Container Height 770±3mm / 30.31inch

Total Height 802±3mm / 31.57inch



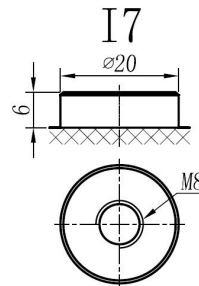
Terminal

Unit:mm

Terminal Type: I7

Weight

181kg 399.03lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery Energy Storage Battery Reserve Battery Motorcycle Battery

OPzV2500E

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	1793	1435	1132	779	594	410	292	242	128
1.80V/cell	1991	1582	1245	825	623	425	304	250	133
1.75V/cell	2127	1686	1311	865	638	436	311	256	136
1.70V/cell	2254	1784	1378	890	652	446	315	260	138
1.65V/cell	2375	1880	1433	915	664	454	320	262	139
1.60V/cell	2506	1939	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	3369	2725	2171	1503	1153	799	573	476	253
1.80V/cell	3662	2942	2351	1580	1200	822	591	488	260
1.75V/cell	3852	3093	2452	1645	1221	840	602	497	265
1.70V/cell	4019	3232	2559	1684	1242	856	607	502	268
1.65V/cell	4161	3366	2640	1721	1259	867	614	505	269
1.60V/cell	4319	3418	2730	1736	1265	872	618	508	270



Motive



Energy Storage Battery

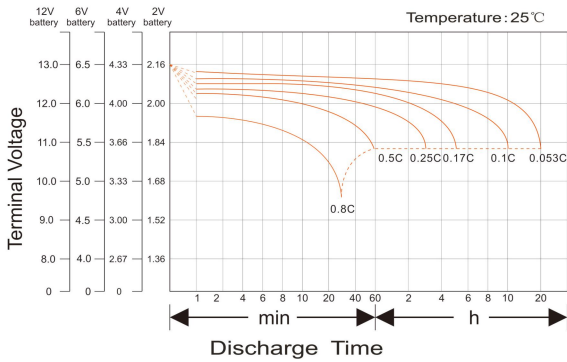


Reserve Battery

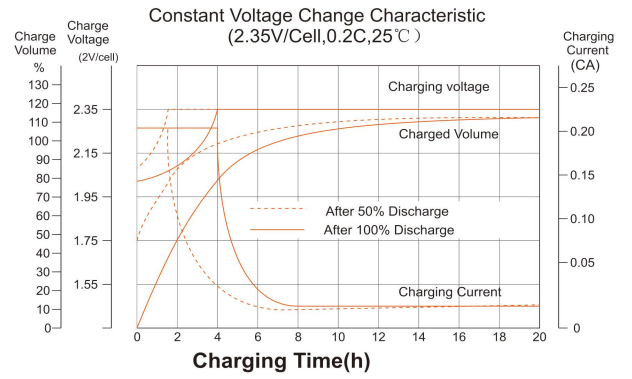


Motorcycle Battery

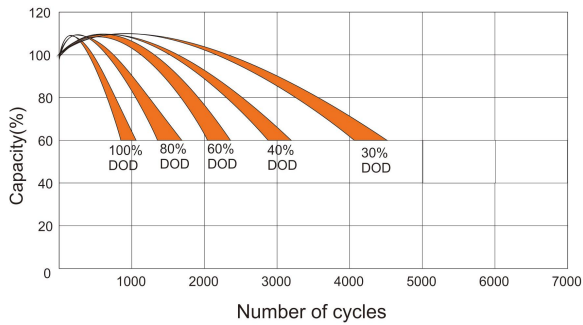
Discharge Characteristics Curve



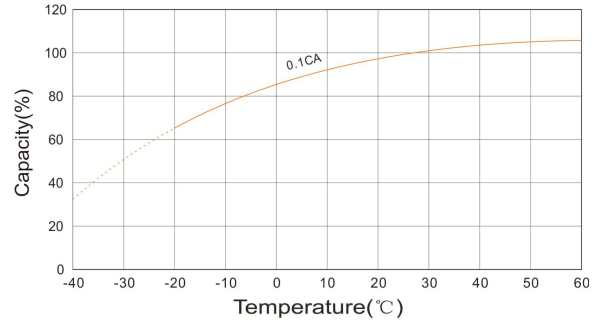
Charging Characteristics Curve



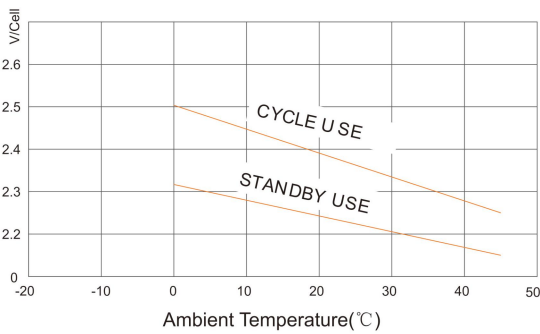
Cycle life in relation to depth of Discharge



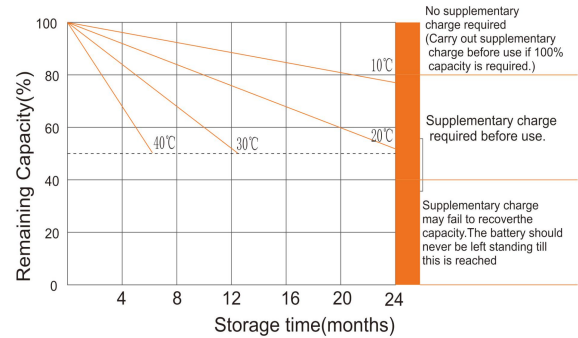
Temperature effects on Capacity



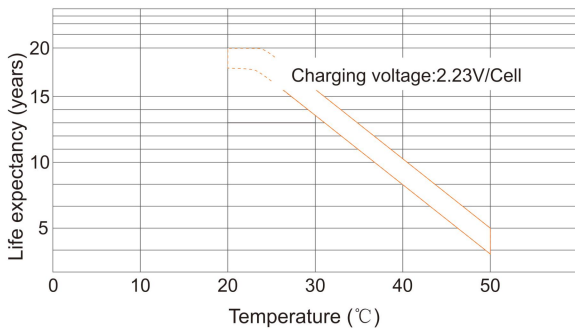
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

