

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS1000

(2V 1000Ah)

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
- ◆ Special filter and seal design ensure no acid mist overflow
- ◆ Excellent deep discharge recovery capability
- ◆ Flooded design, transparent containers, convenient to observe and replenish the lost water
- ◆ Low maintenance



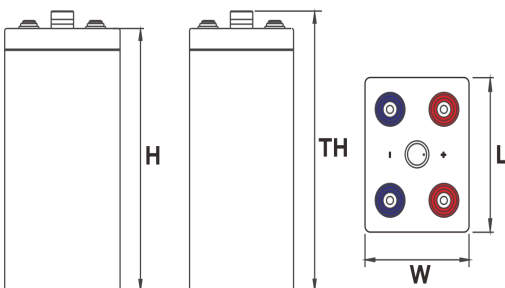
Application

- ◆ 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

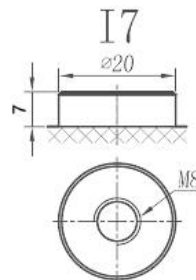
Length	233±2mm	/	9.17inch
Width	210±2mm	/	8.27inch
Container Height	646±3mm	/	25.43inch
Total Height	701±3mm	/	27.6inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

58kg 128lbs

With electrolyte

78kg 172lbs



This document is subject to change without prior notification

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



OPzS1000

Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	1064Ah	20hr Rate(1.80V/cell)
	1000Ah	10hr Rate(1.80V/cell)
	852Ah	5hr Rate(1.75V/cell)
	752Ah	3hr Rate(1.70V/cell)
	576Ah	1hr Rate(1.60V/cell)
Container Material	SAN	
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	200A (0.2C)	
Max. Discharge Current (5S)	6000A	
Internal Resistance	0.31mΩ	
Self Discharge	4%, OPzS 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	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	578	469	305	232	161	116	98.8	52.4
1.80V/cell	686	504	322	240	167	120	100	53.2
1.75V/cell	750	530	334	246	170	122	103	54.8
1.70V/cell	780	546	344	251	174	125	105	55.6
1.65V/cell	813	562	352	255	176	126	105	56.0
1.60V/cell	841	576	359	259	178	127	106	56.4

Constant Power Discharge Table (25°C/77°F) Unit: W

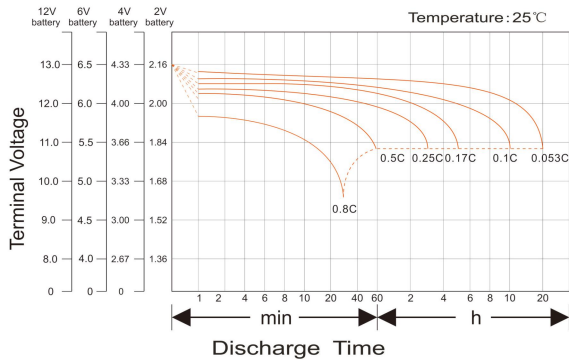
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1362	937	635	482	323	239	197	104
1.80V/cell	1418	1008	660	507	332	246	206	109
1.75V/cell	1476	1068	684	522	348	258	217	115
1.70V/cell	1539	1135	704	535	361	262	221	117
1.65V/cell	1612	1212	714	543	366	266	224	119
1.60V/cell	1702	1303	719	547	368	267	226	120

Motive Battery
 Energy Storage Battery

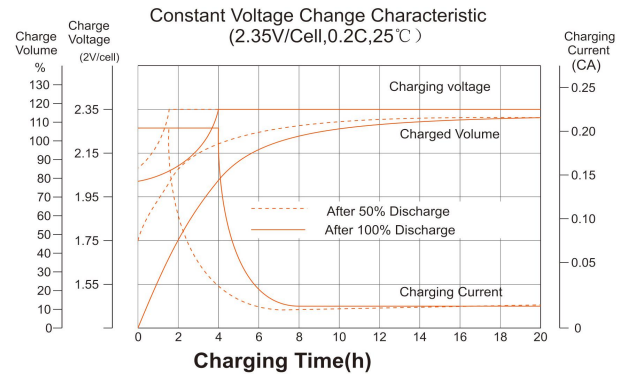
Reserve Battery
 Motorcycle Battery



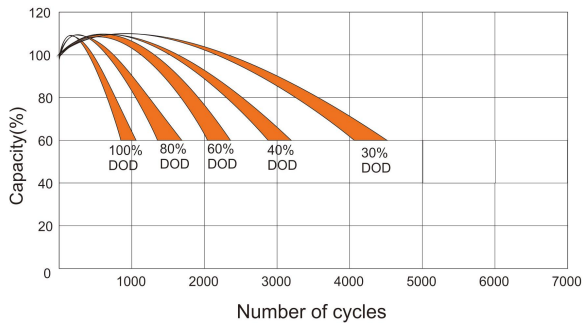
Discharge Characteristics Curve



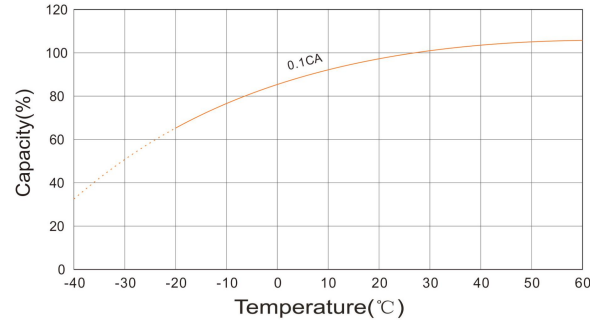
Charging Characteristics Curve



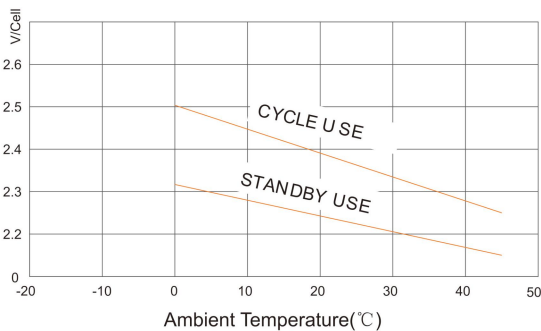
Cycle life in relation to depth of Discharge



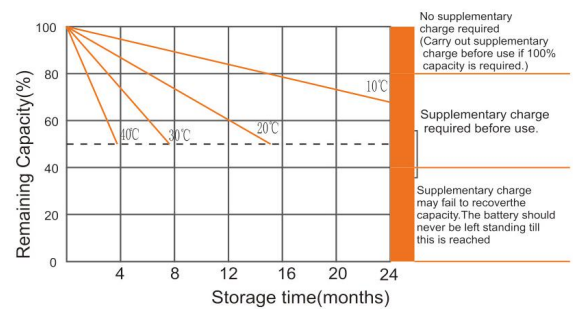
Temperature effects on Capacity



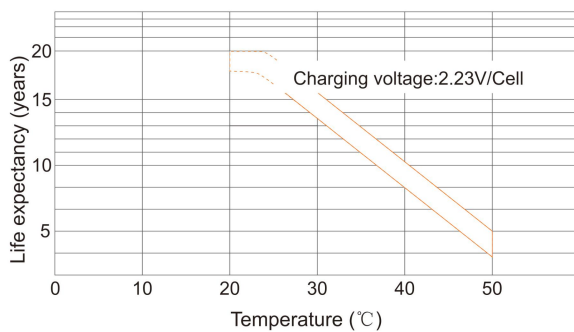
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

