

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS2000

(2V 2000Ah)

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

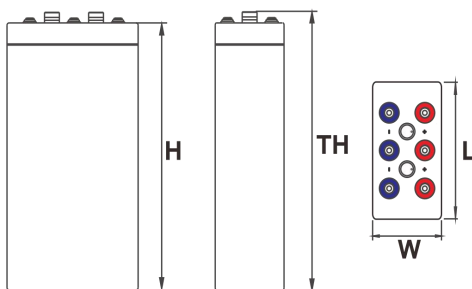
Unit:mm

Length 399±2mm / 15.71inch

Width 210±2mm / 8.27inch

Container Height 773±3mm / 30.43inch

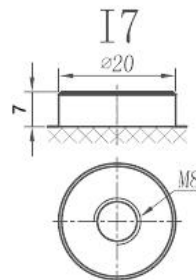
Total Height 828±3mm / 32.6inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

119.5kg 263lbs

With electrolyte

150kg 331lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	2128Ah	20hr Rate(1.80V/cell)
	2000Ah	10hr Rate(1.80V/cell)
	1704Ah	5hr Rate(1.75V/cell)
	1505Ah	3hr Rate(1.70V/cell)
	1152Ah	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	400A (0.2C)	
Max. Discharge Current (5S)	12000A	
Internal Resistance	0.2mΩ	
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	1155	938	610	464	322	232	198	105
1.80V/cell	1373	1009	643	479	334	239	200	106
1.75V/cell	1501	1059	669	491	341	245	206	110
1.70V/cell	1559	1091	687	502	347	250	210	111
1.65V/cell	1626	1124	703	510	352	253	210	112
1.60V/cell	1682	1152	718	518	356	254	212	113

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

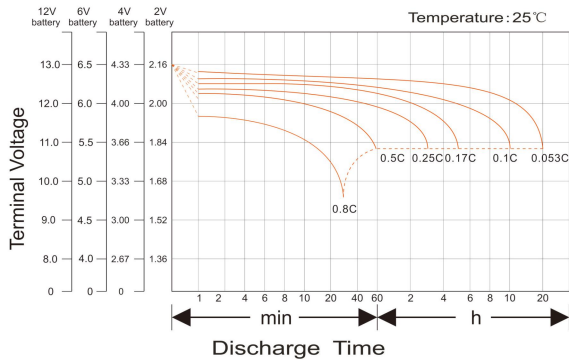
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	2724	1874	1270	965	646	478	394	209
1.80V/cell	2835	2015	1320	1014	664	491	412	218
1.75V/cell	2953	2136	1369	1043	696	515	434	230
1.70V/cell	3078	2270	1409	1070	722	524	442	234
1.65V/cell	3224	2424	1429	1086	732	531	448	238
1.60V/cell	3404	2606	1438	1094	737	534	451	239

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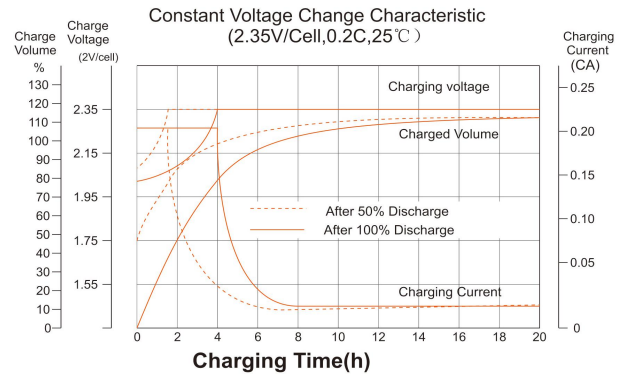
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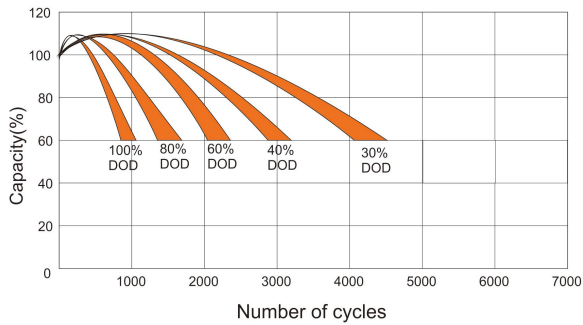
Discharge Characteristics Curve



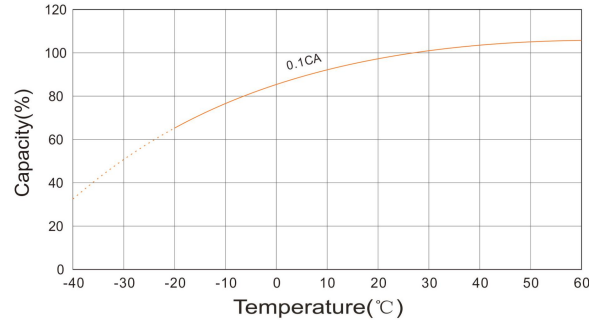
Charging Characteristics Curve



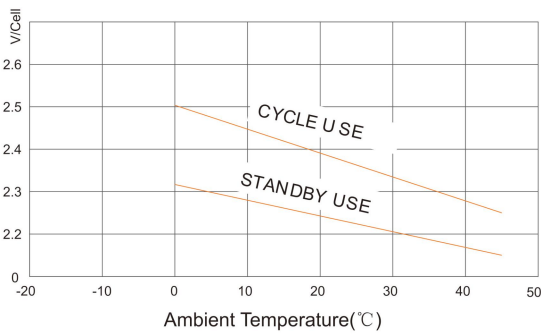
Cycle life in relation to depth of Discharge



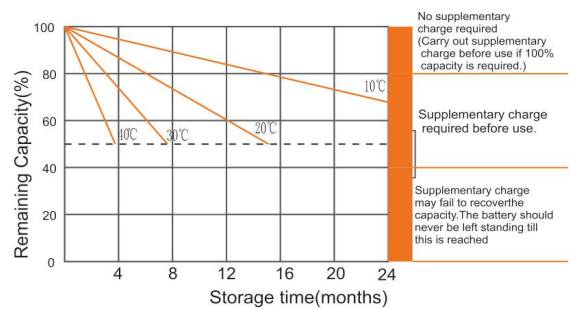
Temperature effects on Capacity



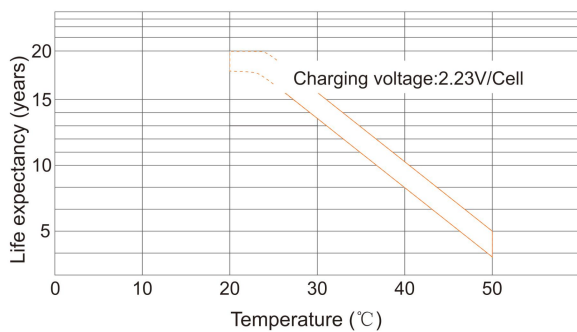
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

