

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS3000

(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
- ◆ 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

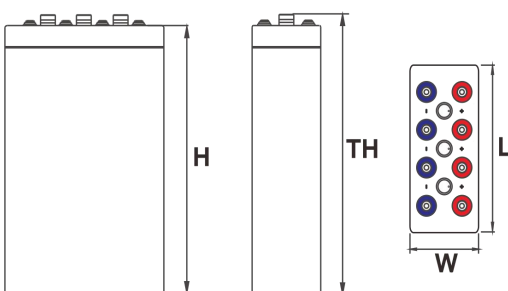
Unit:mm

Length 576±2mm / 22.68inch

Width 212±2mm / 8.35inch

Container Height 772±3mm / 30.39inch

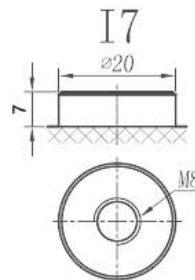
Total Height 806±3mm / 31.73inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

170kg 375lbs

With electrolyte

230kg 507lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	3192Ah	20hr Rate(1.80V/cell)
	3000Ah	10hr Rate(1.80V/cell)
	2556Ah	5hr Rate(1.75V/cell)
	2257Ah	3hr Rate(1.70V/cell)
	1728Ah	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	600A (0.2C)	
Max. Discharge Current (5S)	18000A	
Internal Resistance	0.12mΩ	
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	1733	1406	916	696	484	348	296	157
1.80V/cell	2059	1513	965	719	500	359	300	160
1.75V/cell	2251	1589	1003	737	511	367	310	164
1.70V/cell	2339	1637	1031	752	521	374	314	167
1.65V/cell	2440	1686	1055	766	528	379	316	168
1.60V/cell	2522	1728	1078	778	534	382	318	169

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

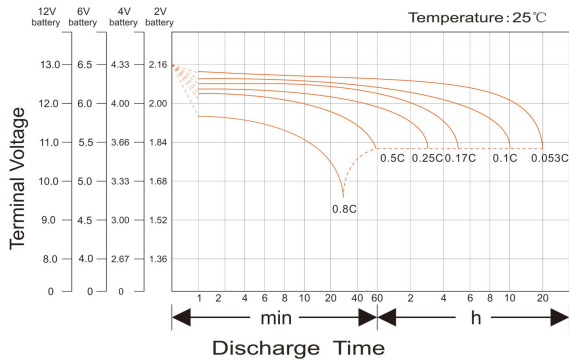
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	4086	2812	1906	1447	970	718	592	313
1.80V/cell	4253	3023	1980	1522	996	737	618	328
1.75V/cell	4429	3204	2053	1565	1044	773	650	344
1.70V/cell	4616	3406	2113	1606	1082	786	664	352
1.65V/cell	4836	3636	2143	1628	1098	797	672	356
1.60V/cell	5106	3910	2156	1640	1105	802	677	359

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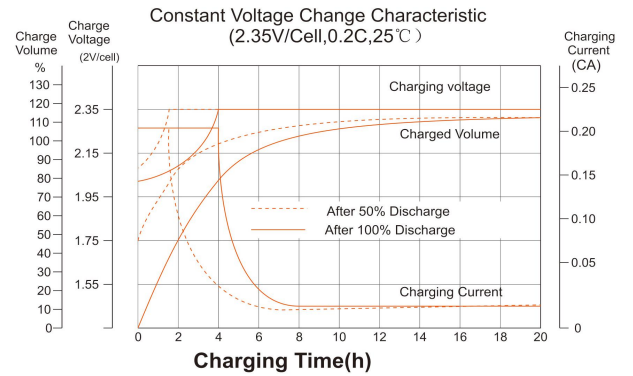
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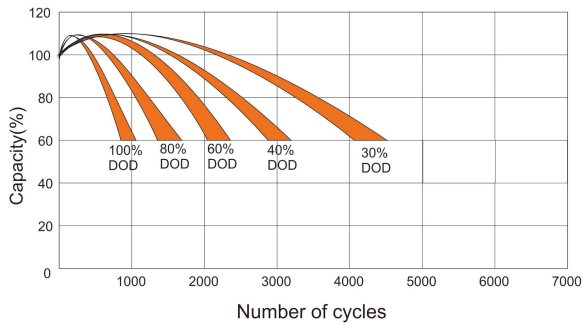
Discharge Characteristics Curve



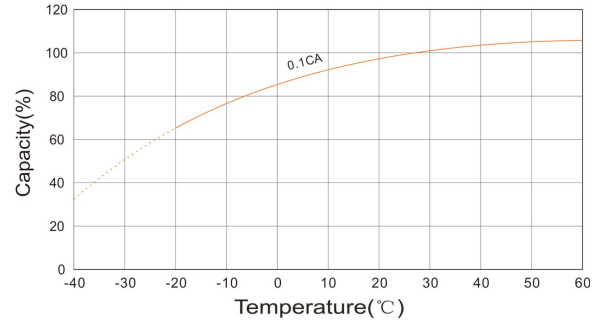
Charging Characteristics Curve



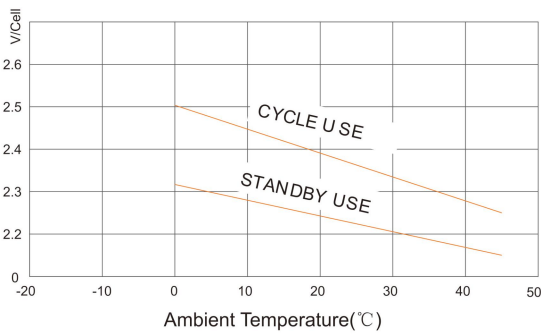
Cycle life in relation to depth of Discharge



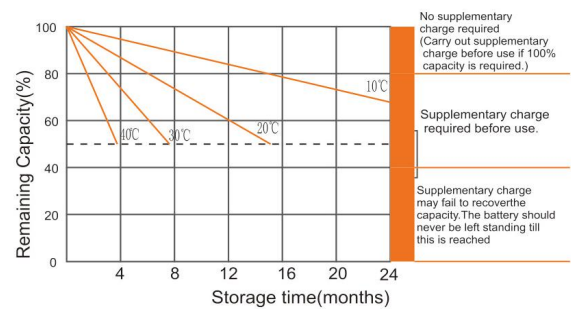
Temperature effects on Capacity



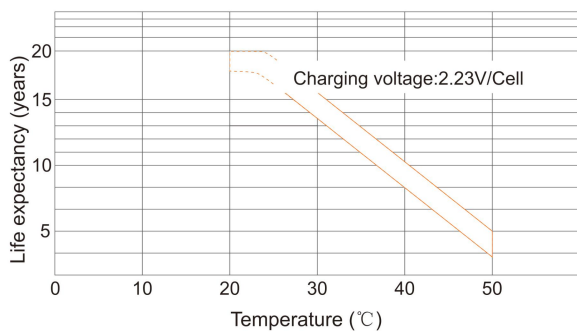
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

