

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS2500

(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
- ◆ 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

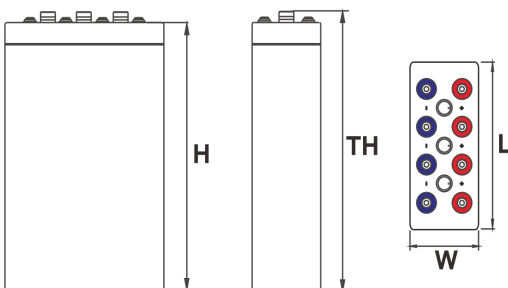
Unit:mm

Length 487±2mm / 19.17inch

Width 212±2mm / 8.35inch

Container Height 771±3mm / 30.35inch

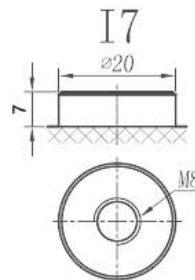
Total Height 826±3mm / 32.52inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

152kg 335lbs

With electrolyte

204kg 450lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	2660Ah	20hr Rate(1.80V/cell)
	2500Ah	10hr Rate(1.80V/cell)
	2130Ah	5hr Rate(1.75V/cell)
	1881Ah	3hr Rate(1.70V/cell)
	1440Ah	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	500A (0.2C)	
Max. Discharge Current (5S)	15000A	
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	1444	1172	763	580	403	290	247	131
1.80V/cell	1716	1261	804	599	417	299	250	133
1.75V/cell	1876	1324	836	614	426	306	258	137
1.70V/cell	1949	1364	859	627	434	312	262	139
1.65V/cell	2033	1405	879	638	440	316	263	140
1.60V/cell	2102	1440	898	648	445	318	265	141

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

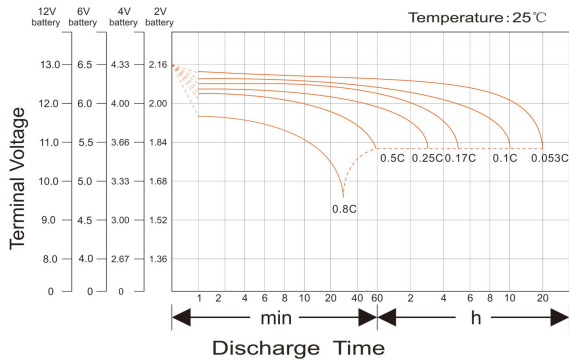
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	3405	2343	1588	1206	808	598	493	261
1.80V/cell	3544	2519	1650	1268	830	614	515	273
1.75V/cell	3691	2670	1711	1304	870	644	542	287
1.70V/cell	3847	2838	1761	1338	902	655	553	293
1.65V/cell	4030	3030	1786	1357	915	664	560	297
1.60V/cell	4255	3258	1797	1367	921	668	564	299

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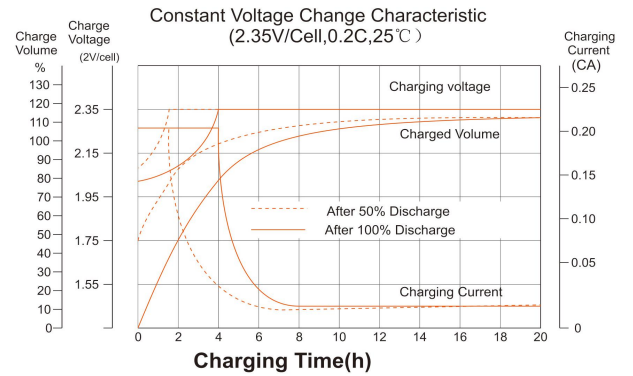
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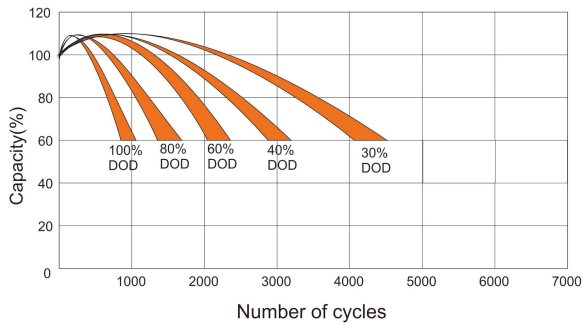
Discharge Characteristics Curve



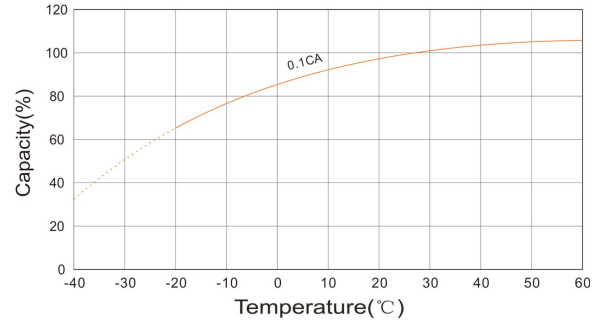
Charging Characteristics Curve



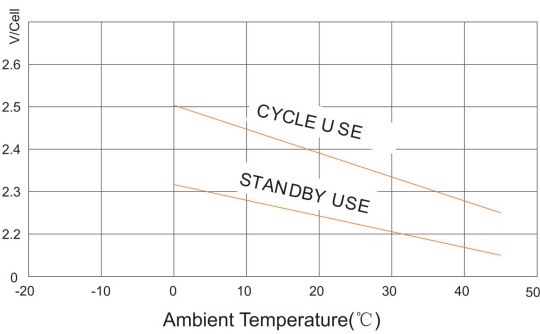
Cycle life in relation to depth of Discharge



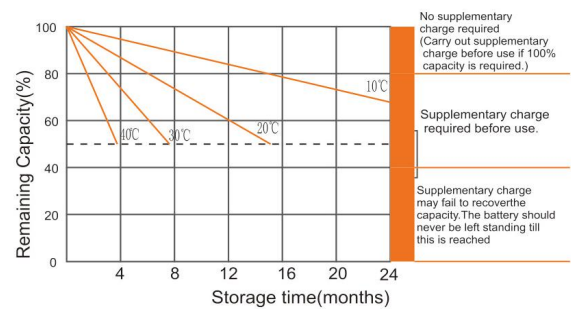
Temperature effects on Capacity



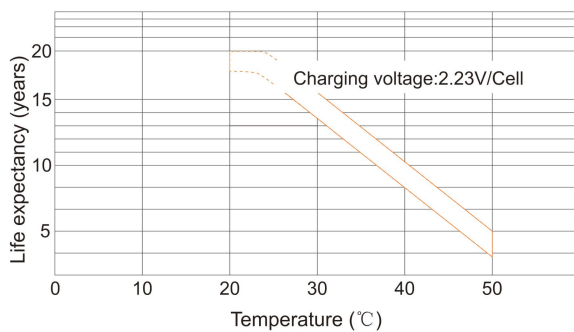
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

