

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS1500

(2V 1500Ah)

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

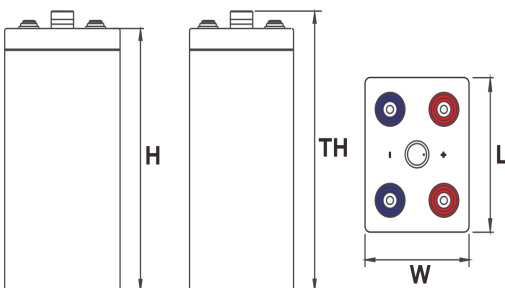
Unit:mm

Length 275±2mm / 10.83inch

Width 210±2mm / 8.27inch

Container Height 773±3mm / 30.43inch

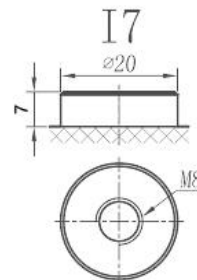
Total Height 828±3mm / 32.6inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

81.7kg 180lbs

With electrolyte

112kg 247lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	1596Ah	20hr Rate(1.80V/cell)
	1500Ah	10hr Rate(1.80V/cell)
	1278Ah	5hr Rate(1.75V/cell)
	1129Ah	3hr Rate(1.70V/cell)
	864Ah	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	300A (0.2C)	
Max. Discharge Current (5S)	9000A	
Internal Resistance	0.28mΩ	
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	866	703	458	348	242	174	148	78.6
1.80V/cell	1030	757	482	359	250	179	150	79.8
1.75V/cell	1126	794	502	368	256	184	155	82.2
1.70V/cell	1169	818	515	376	260	187	157	83.4
1.65V/cell	1220	843	527	383	264	190	158	84.0
1.60V/cell	1261	864	539	389	267	191	159	84.6

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

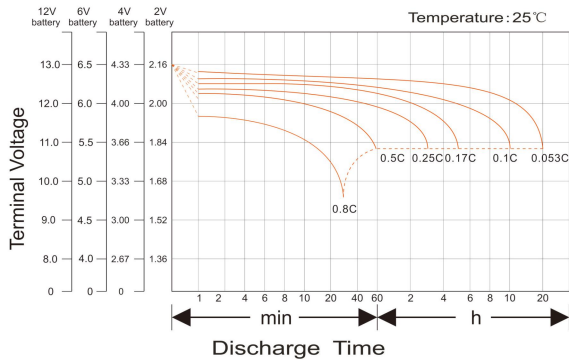
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	2043	1406	953	724	485	359	296	157
1.80V/cell	2126	1511	990	761	498	368	309	164
1.75V/cell	2215	1602	1027	782	522	386	325	172
1.70V/cell	2308	1703	1057	803	541	393	332	176
1.65V/cell	2418	1818	1072	814	549	398	336	178
1.60V/cell	2553	1955	1078	820	553	401	338	179

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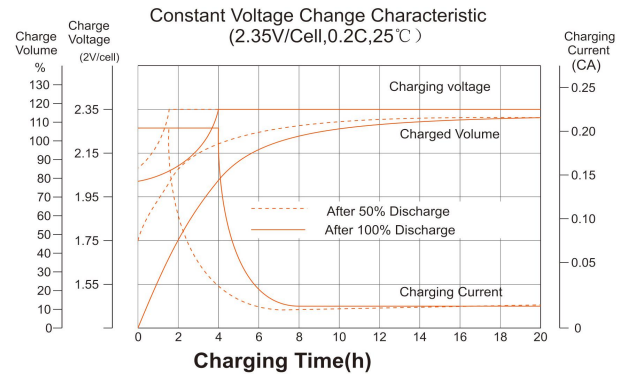
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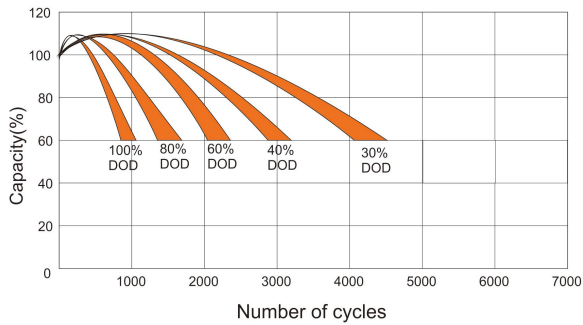
Discharge Characteristics Curve



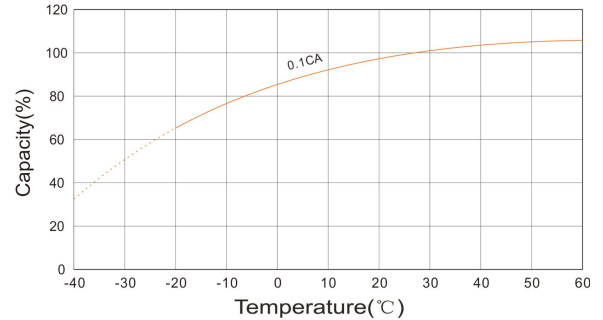
Charging Characteristics Curve



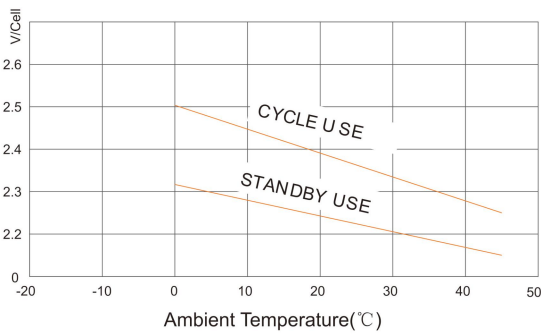
Cycle life in relation to depth of Discharge



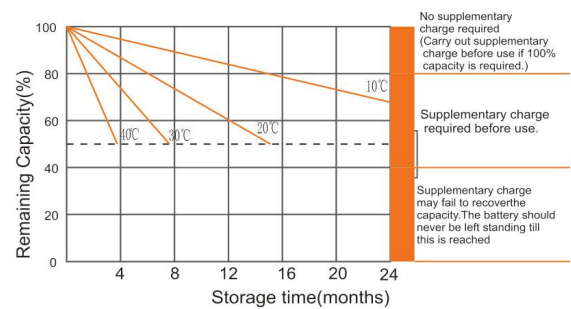
Temperature effects on Capacity



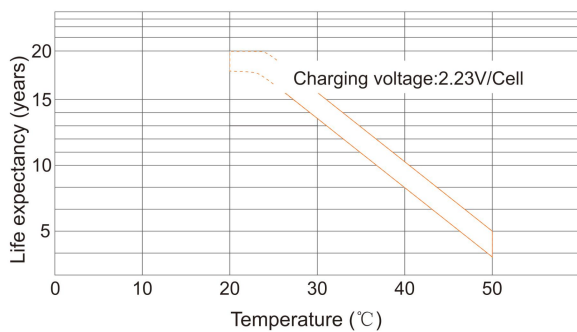
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

