

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS1200

(2V 1200Ah)

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

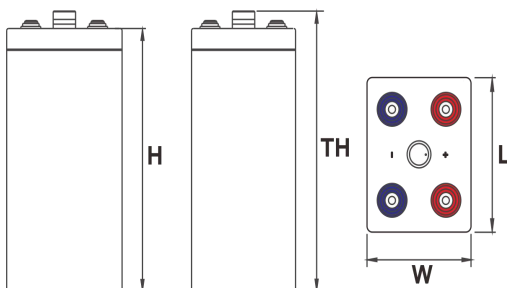
Unit:mm

Length 275±2mm / 10.83inch

Width 210±2mm / 8.27inch

Container Height 646±3mm / 25.43inch

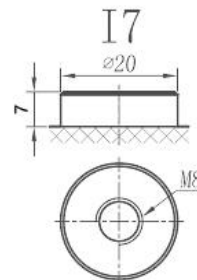
Total Height 701±3mm / 27.6inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

67.8kg 149lbs

With electrolyte

92kg 203lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	1277Ah	20hr Rate(1.80V/cell)
	1200Ah	10hr Rate(1.80V/cell)
	1022Ah	5hr Rate(1.75V/cell)
	903Ah	3hr Rate(1.70V/cell)
	691Ah	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	240A (0.2C)	
Max. Discharge Current (5S)	7200A	
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	693	563	366	278	193	139	119	62.9
1.80V/cell	824	605	386	288	200	144	120	63.8
1.75V/cell	900	636	401	295	204	147	124	65.8
1.70V/cell	936	655	412	301	208	150	126	66.7
1.65V/cell	976	674	422	306	211	152	126	67.2
1.60V/cell	1009	691	431	311	214	153	127	67.7

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

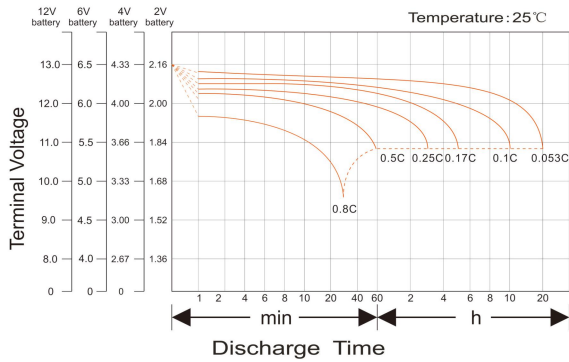
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1634	1125	762	579	388	287	237	125
1.80V/cell	1701	1209	792	609	398	295	247	131
1.75V/cell	1772	1282	821	626	418	309	260	138
1.70V/cell	1847	1362	845	642	433	314	265	141
1.65V/cell	1934	1454	857	651	439	319	269	143
1.60V/cell	2042	1564	863	656	442	321	271	144

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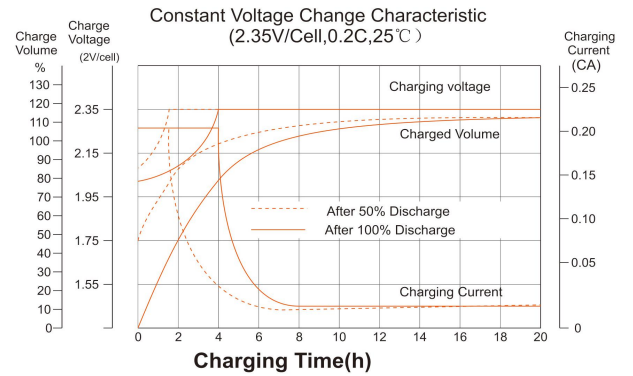
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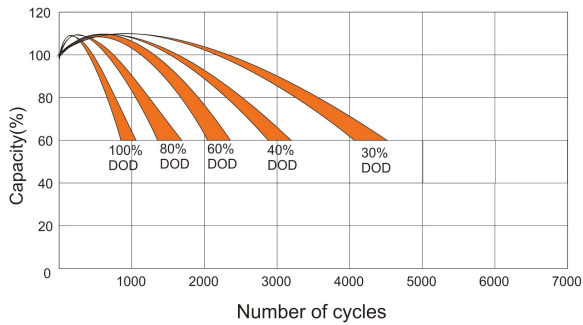
Discharge Characteristics Curve



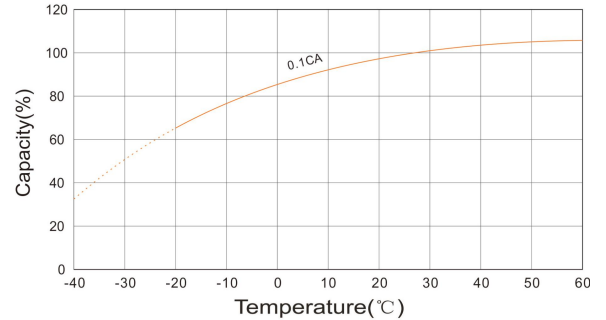
Charging Characteristics Curve



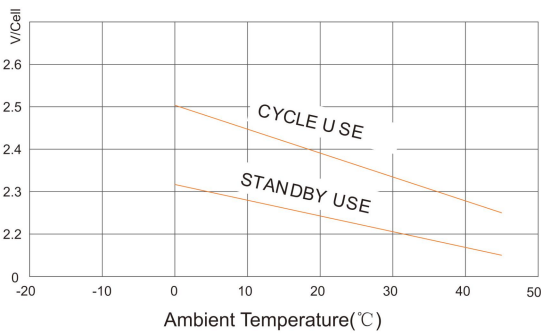
Cycle life in relation to depth of Discharge



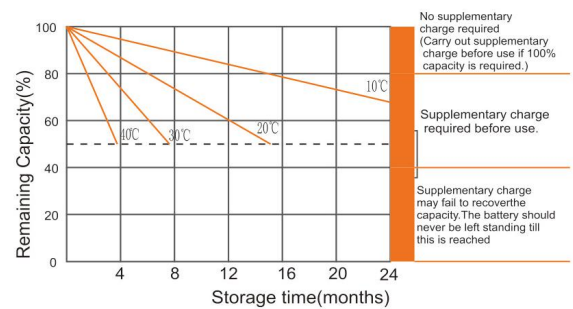
Temperature effects on Capacity



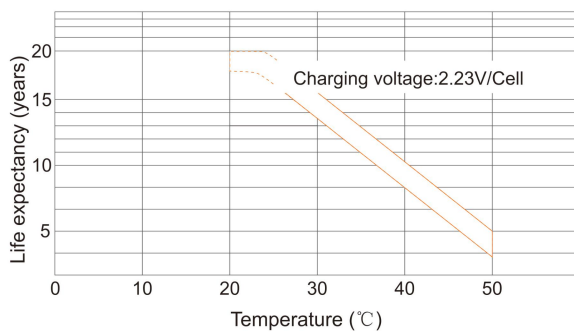
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

