

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS200

(2V 200Ah)

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



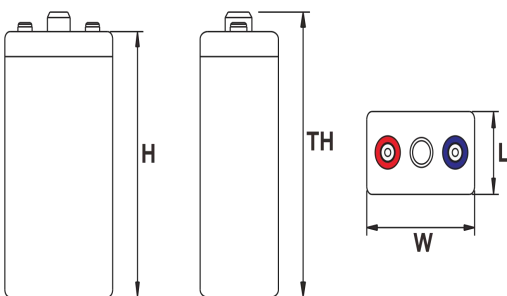
Application

- ◆ 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

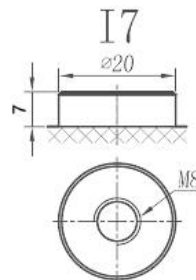
Length	103±2mm / 4.06inch
Width	206±2mm / 8.11inch
Container Height	355±3mm / 13.98inch
Total Height	410±3mm / 16.14inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

12.8kg 28.2lbs

With electrolyte

17.5kg 38.6lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	213Ah	20hr Rate(1.80V/cell)
	200Ah	10hr Rate(1.80V/cell)
	170Ah	5hr Rate(1.75V/cell)
	150Ah	3hr Rate(1.70V/cell)
	115Ah	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	40A (0.2C)	
Max. Discharge Current (5S)	1200A	
Internal Resistance	0.9mΩ	
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	116	93.8	61.0	46.4	32.2	23.2	19.8	10.5
1.80V/cell	137	101	64.3	47.9	33.4	23.9	20.0	10.6
1.75V/cell	150	106	66.9	49.1	34.1	24.5	20.6	11.0
1.70V/cell	156	109	68.7	50.2	34.7	25.0	21.0	11.1
1.65V/cell	163	112	70.3	51.0	35.2	25.3	21.0	11.2
1.60V/cell	168	115	71.8	51.8	35.6	25.4	21.2	11.3

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

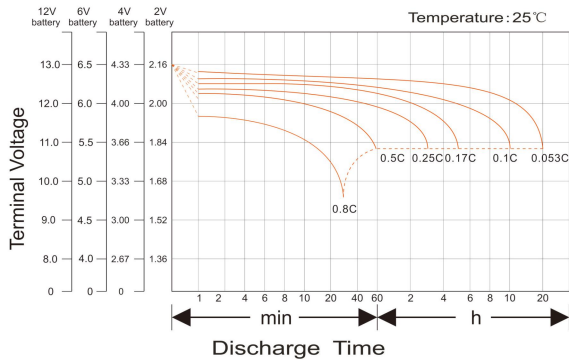
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	272	187	127	96.5	64.6	47.8	39.4	20.9
1.80V/cell	284	202	132	101	66.4	49.1	41.2	21.8
1.75V/cell	295	214	137	104	69.6	51.5	43.4	23.0
1.70V/cell	308	227	141	107	72.2	52.4	44.2	23.4
1.65V/cell	322	242	143	109	73.2	53.1	44.8	23.8
1.60V/cell	340	261	144	109	73.7	53.4	45.1	23.9

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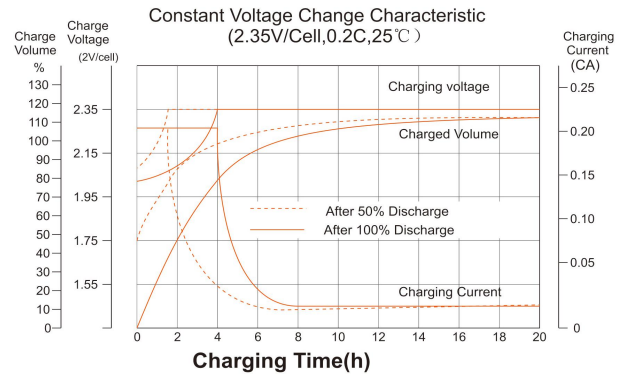
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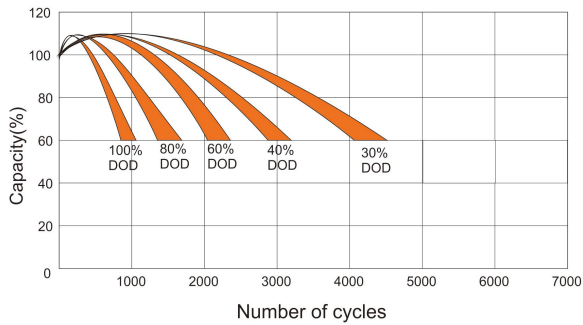
Discharge Characteristics Curve



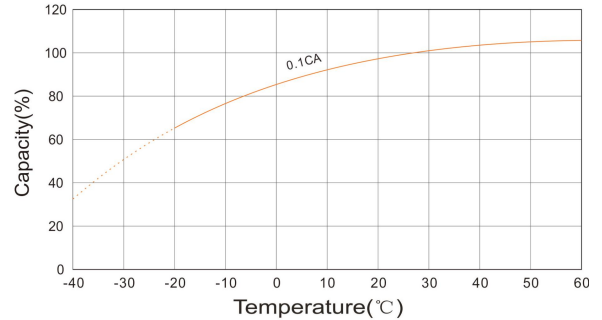
Charging Characteristics Curve



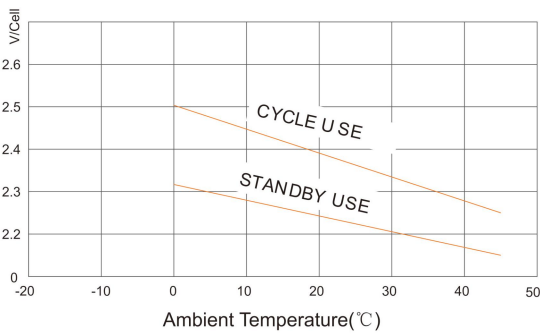
Cycle life in relation to depth of Discharge



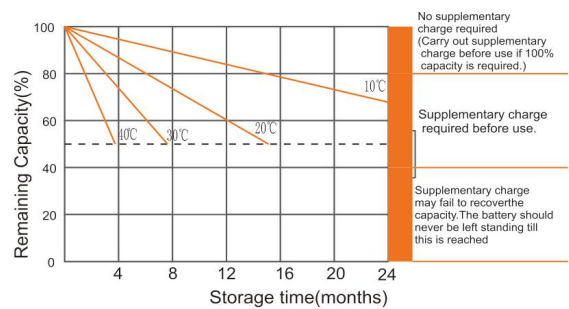
Temperature effects on Capacity



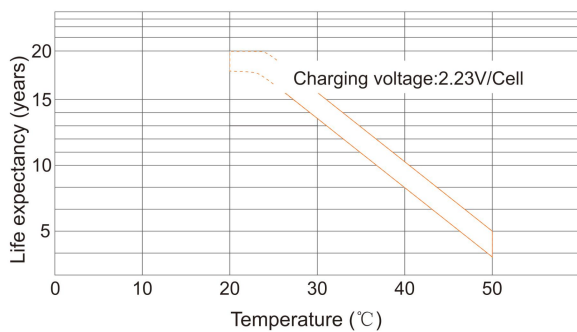
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

