

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS600

(2V 600Ah)

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



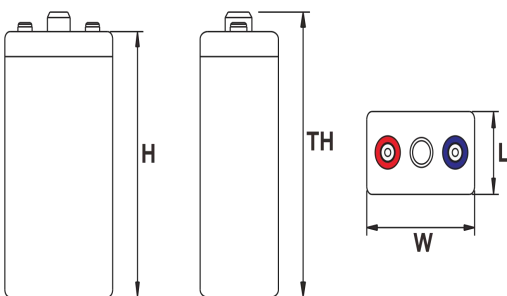
Application

- ◆ 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

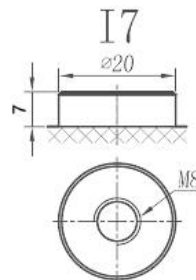
Length	145±2mm / 5.71inch
Width	206±2mm / 8.11inch
Container Height	646±3mm / 25.43inch
Total Height	701±3mm / 27.6inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

35.3kg 77.8lbs

With electrolyte

47kg 104lbs



This document is subject to change without prior notification

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Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	638Ah	20hr Rate(1.80V/cell)
	600Ah	10hr Rate(1.80V/cell)
	511Ah	5hr Rate(1.75V/cell)
	451Ah	3hr Rate(1.70V/cell)
	346Ah	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	120A (0.2C)	
Max. Discharge Current (5S)	3600A	
Internal Resistance	0.52mΩ	
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	347	281	183	139	96.7	69.6	59.3	31.4
1.80V/cell	412	303	193	144	100	71.8	60.0	31.9
1.75V/cell	450	318	201	147	102	73.4	61.9	32.9
1.70V/cell	468	327	206	150	104	74.9	62.9	33.4
1.65V/cell	488	337	211	153	106	75.8	63.1	33.6
1.60V/cell	504	346	216	156	107	76.3	63.6	33.8

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

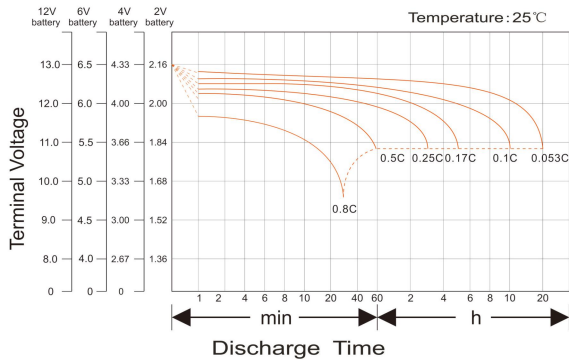
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	817	562	381	289	194	144	118	62.6
1.80V/cell	851	605	396	304	199	147	124	65.5
1.75V/cell	886	641	411	313	209	155	130	68.9
1.70V/cell	923	681	423	321	216	157	133	70.3
1.65V/cell	967	727	429	326	220	159	134	71.3
1.60V/cell	1021	782	431	328	221	160	135	71.8

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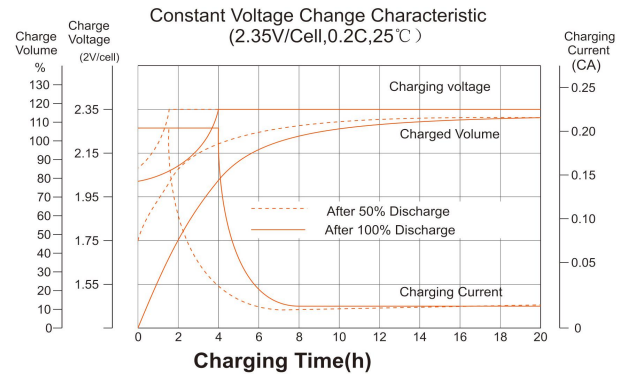
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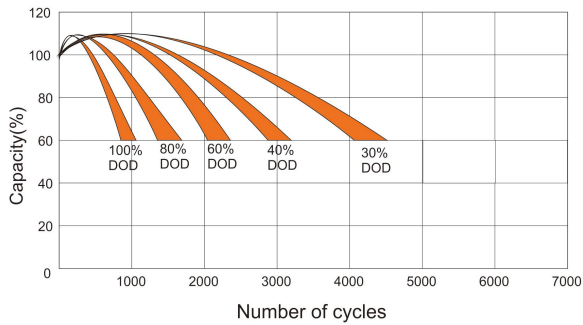
Discharge Characteristics Curve



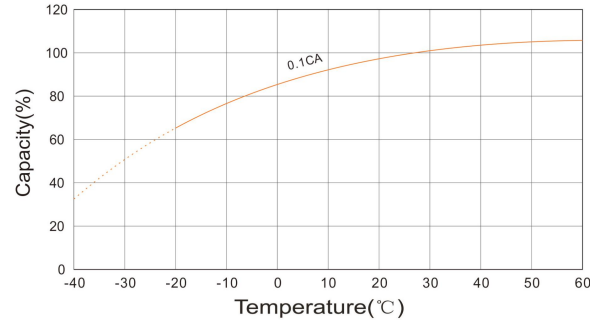
Charging Characteristics Curve



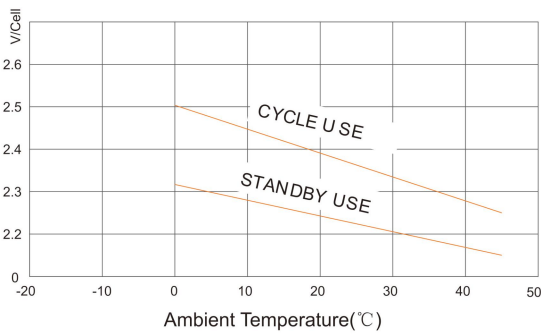
Cycle life in relation to depth of Discharge



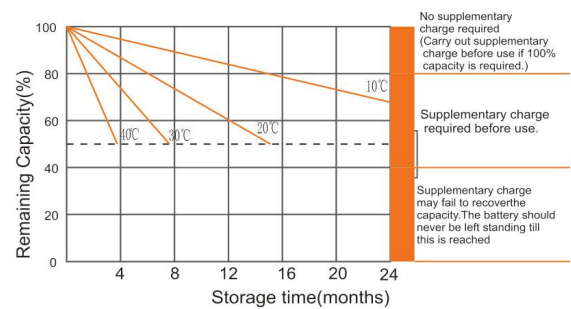
Temperature effects on Capacity



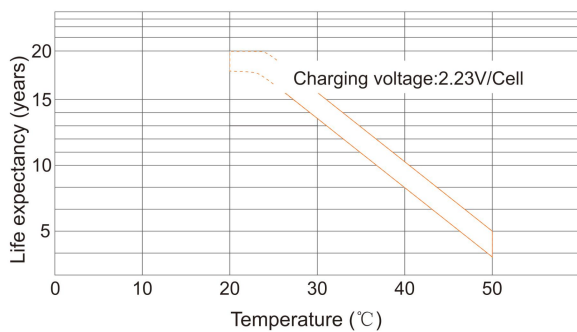
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

