

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS350

(2V 350Ah)

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



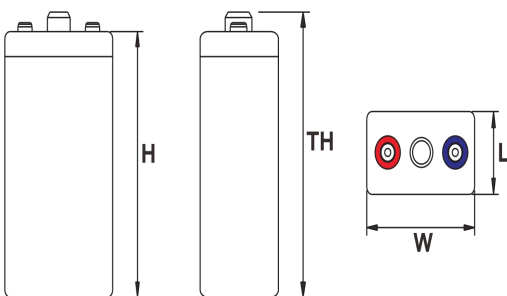
Application

- ◆ 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

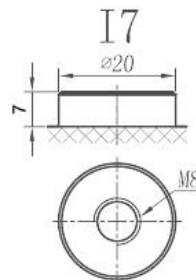
Length	124±2mm / 4.88inch
Width	206±2mm / 8.11inch
Container Height	471±3mm / 18.54inch
Total Height	526±3mm / 20.71inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

19.8kg 43.7lbs

With electrolyte

27kg 59.5lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	372Ah	20hr Rate(1.80V/cell)
	350Ah	10hr Rate(1.80V/cell)
	298Ah	5hr Rate(1.75V/cell)
	263Ah	3hr Rate(1.70V/cell)
	202Ah	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	70A (0.2C)	
Max. Discharge Current (5S)	2100A	
Internal Resistance	0.67mΩ	
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	202	164	107	81.2	56.4	40.6	34.6	18.3
1.80V/cell	240	177	113	83.9	58.4	41.9	35.0	18.6
1.75V/cell	263	185	117	86.0	59.6	42.8	36.1	19.2
1.70V/cell	273	191	120	87.8	60.8	43.7	36.7	19.5
1.65V/cell	285	197	123	89.3	61.6	44.2	36.8	19.6
1.60V/cell	294	202	126	90.7	62.3	44.5	37.1	19.7

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

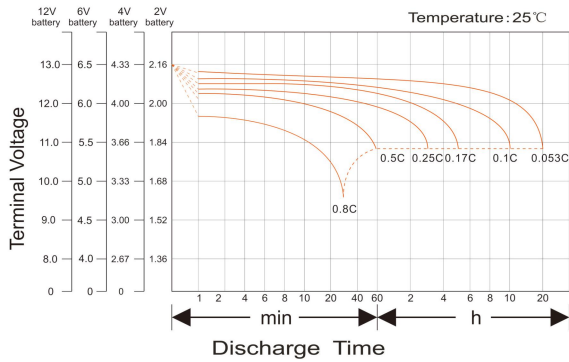
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	477	328	222	169	113	83.7	69.0	36.5
1.80V/cell	496	353	231	178	116	86.0	72.1	38.2
1.75V/cell	517	374	240	183	122	90.2	75.9	40.2
1.70V/cell	539	397	247	187	126	91.7	77.4	41.0
1.65V/cell	564	424	250	190	128	93.0	78.4	41.6
1.60V/cell	596	456	252	191	129	93.5	79.0	41.9

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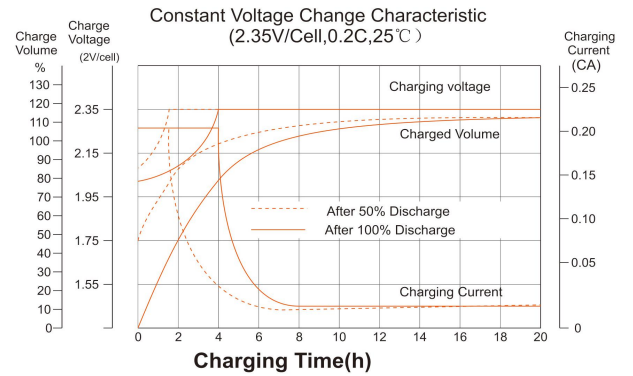
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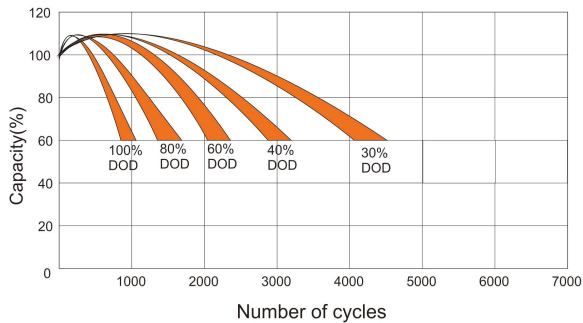
Discharge Characteristics Curve



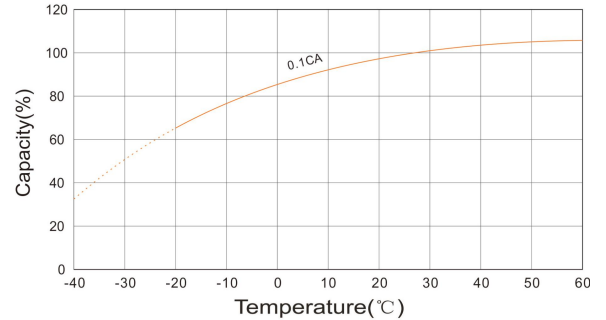
Charging Characteristics Curve



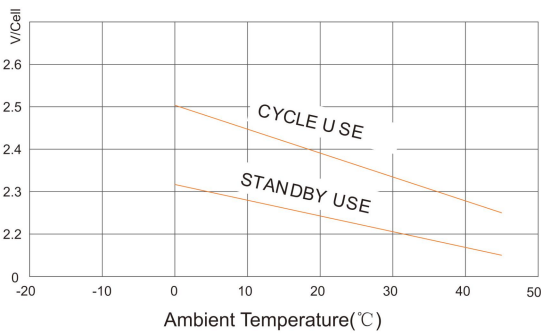
Cycle life in relation to depth of Discharge



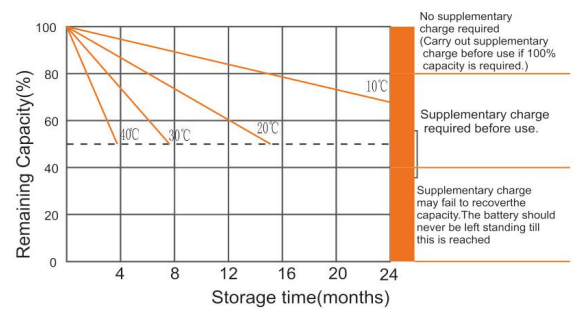
Temperature effects on Capacity



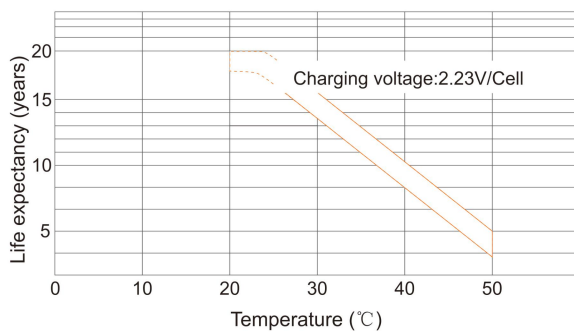
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

