

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS250

(2V 250Ah)

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



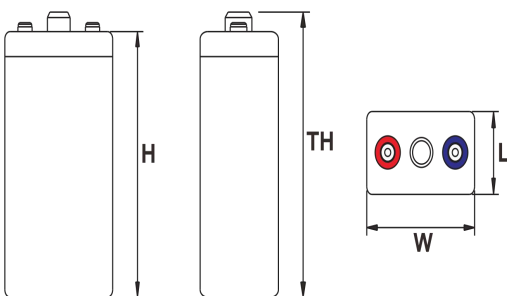
Application

- ◆ 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

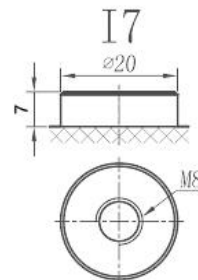
Length	124±2mm / 4.88inch
Width	206±2mm / 8.11inch
Container Height	355±3mm / 13.98inch
Total Height	410±3mm / 16.14inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

15.1kg 33.3lbs

With electrolyte

20.5kg 45.2lbs



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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	266Ah	20hr Rate(1.80V/cell)
	250Ah	10hr Rate(1.80V/cell)
	213Ah	5hr Rate(1.75V/cell)
	188Ah	3hr Rate(1.70V/cell)
	144Ah	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	50A (0.2C)	
Max. Discharge Current (5S)	1500A	
Internal Resistance	0.8mΩ	
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	144	117	76.3	58.0	40.3	29.0	24.7	13.1
1.80V/cell	172	126	80.4	59.9	41.7	29.9	25.0	13.3
1.75V/cell	188	132	83.6	61.4	42.6	30.6	25.8	13.7
1.70V/cell	195	136	85.9	62.7	43.4	31.2	26.2	13.9
1.65V/cell	203	141	87.9	63.8	44.0	31.6	26.3	14.0
1.60V/cell	210	144	89.8	64.8	44.5	31.8	26.5	14.1

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

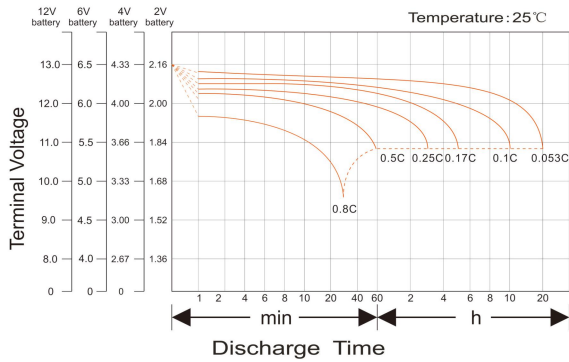
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	341	234	159	121	80.8	59.8	49.3	26.1
1.80V/cell	354	252	165	127	83.0	61.4	51.5	27.3
1.75V/cell	369	267	171	130	87.0	64.4	54.2	28.7
1.70V/cell	385	284	176	134	90.2	65.5	55.3	29.3
1.65V/cell	403	303	179	136	91.5	66.4	56.0	29.7
1.60V/cell	426	326	180	137	92.1	66.8	56.4	29.9

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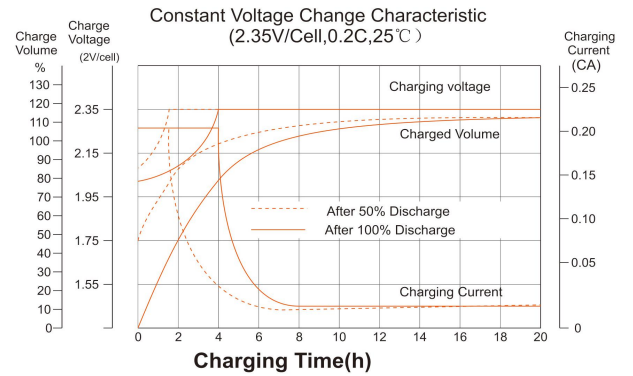
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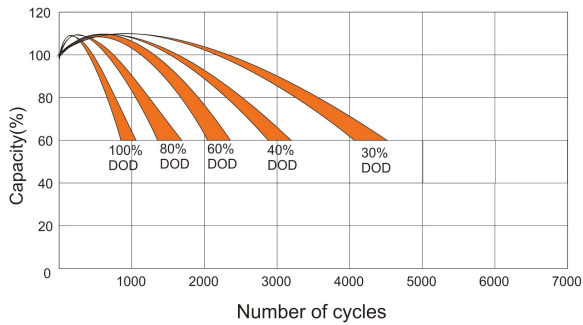
Discharge Characteristics Curve



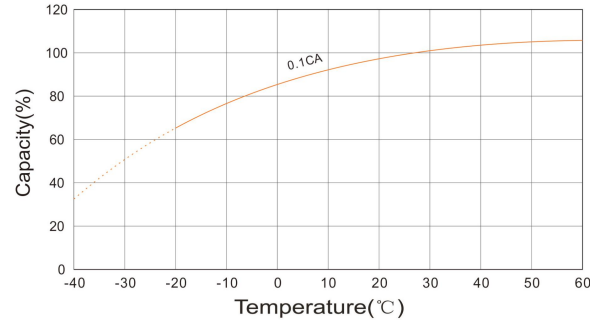
Charging Characteristics Curve



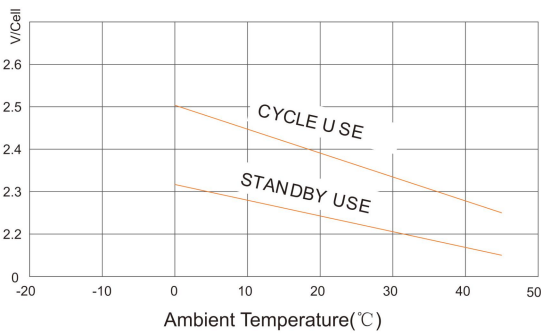
Cycle life in relation to depth of Discharge



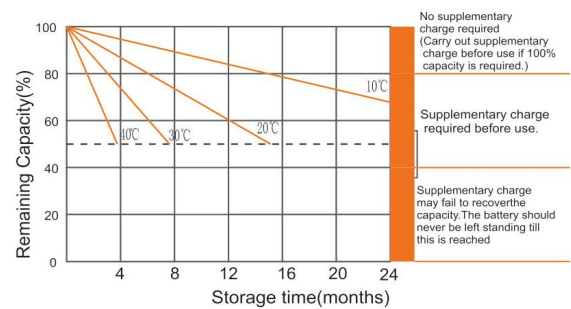
Temperature effects on Capacity



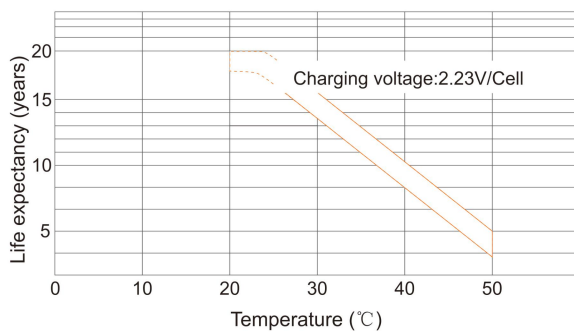
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

