

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular Flooded Technology-OPzS Series

OPzS300

(2V 300Ah)

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



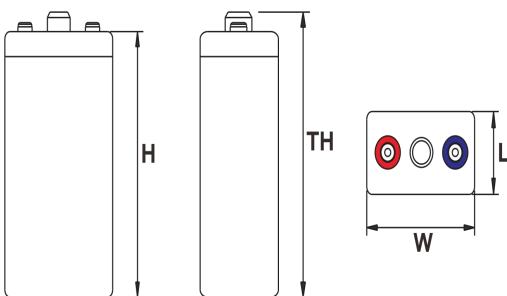
Application

- ◆ 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

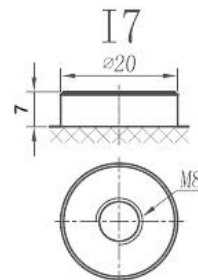
Length	145±2mm / 5.71inch
Width	206±2mm / 8.11inch
Container Height	355±3mm / 13.98inch
Total Height	410±3mm / 16.14inch



Terminal

Unit:mm

Terminal Type: I7



Weight

Without electrolyte

17.5kg 38.6lbs

With electrolyte

24kg 52.9lbs



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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	319Ah	20hr Rate(1.80V/cell)
	300Ah	10hr Rate(1.80V/cell)
	256Ah	5hr Rate(1.75V/cell)
	226Ah	3hr Rate(1.70V/cell)
	173Ah	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	60A (0.2C)	
Max. Discharge Current (5S)	1800A	
Internal Resistance	0.68mΩ	
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	173	141	91.6	69.6	48.4	34.8	29.6	15.7
1.80V/cell	206	151	96.5	71.9	50.0	35.9	30.0	16.0
1.75V/cell	225	159	100	73.7	51.1	36.7	31.0	16.4
1.70V/cell	234	164	103	75.2	52.1	37.4	31.4	16.7
1.65V/cell	244	169	105	76.6	52.8	37.9	31.6	16.8
1.60V/cell	252	173	108	77.8	53.4	38.2	31.8	16.9

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

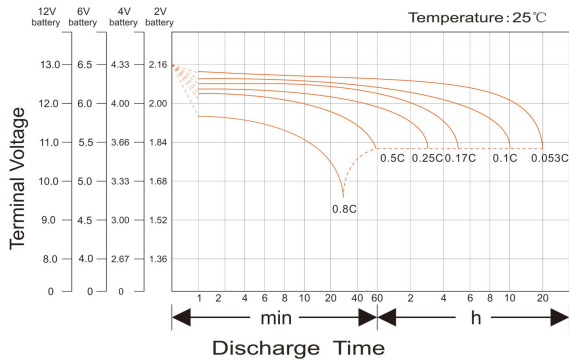
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	409	281	191	145	97.0	71.8	59.2	31.3
1.80V/cell	425	302	198	152	100	73.7	61.8	32.8
1.75V/cell	443	320	205	156	104	77.3	65.0	34.4
1.70V/cell	462	341	211	161	108	78.6	66.4	35.2
1.65V/cell	484	364	214	163	110	79.7	67.2	35.6
1.60V/cell	511	391	216	164	111	80.2	67.7	35.9

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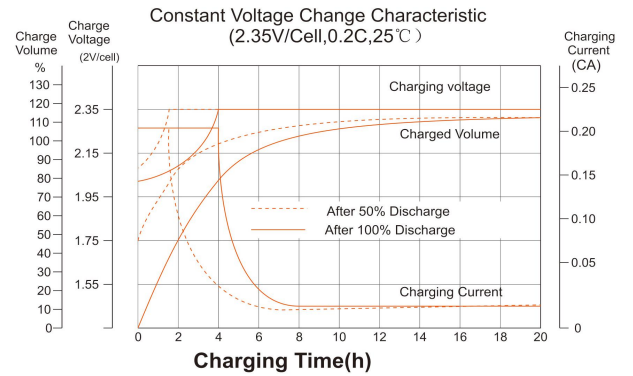
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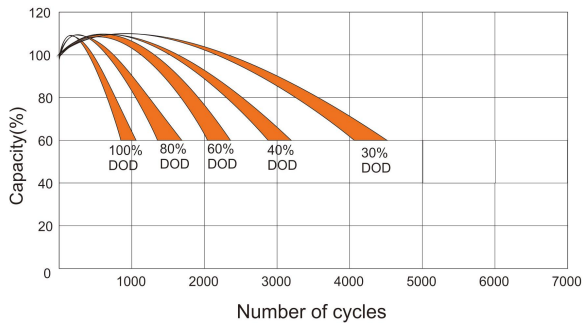
Discharge Characteristics Curve



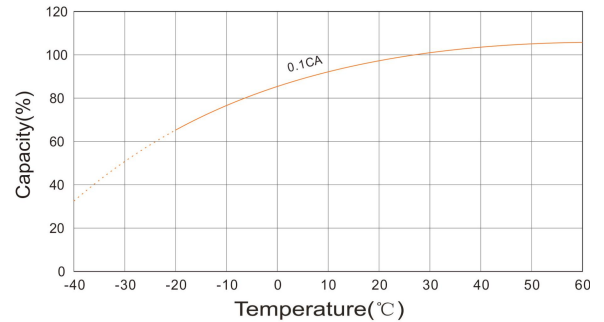
Charging Characteristics Curve



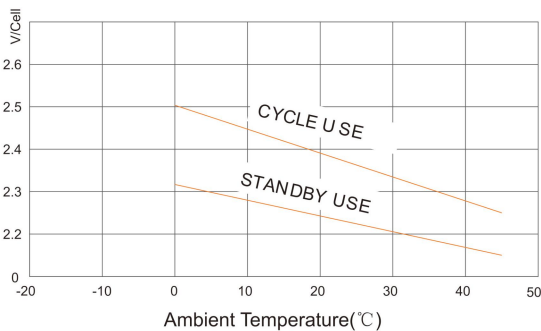
Cycle life in relation to depth of Discharge



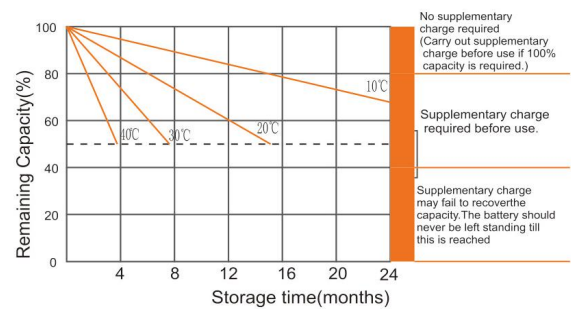
Temperature effects on Capacity



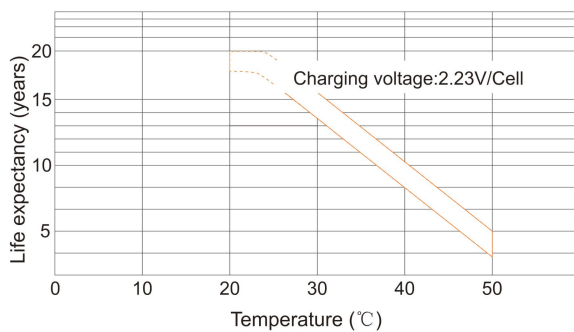
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

