

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



## Energy Storage Battery-Tubular Flooded Technology-OPzS Series

# OPzS800

(2V 800Ah)

### 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



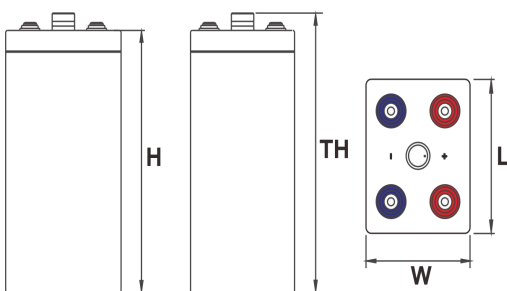
### Application

- ◆ 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

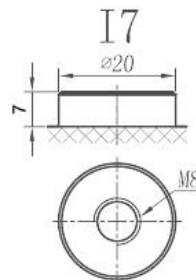
Length	191±2mm / 7.52inch
Width	210±2mm / 8.27inch
Container Height	646±3mm / 25.43inch
Total Height	701±3mm / 27.6inch



### Terminal

Unit:mm

Terminal Type: I7



### Weight

Without electrolyte

48.2kg 106lbs

With electrolyte

64kg 141lbs



ISO9001 ISO14001 OHSAS18001

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## Specificaion

<b>Nominal Voltage</b>	2V	
<b>Rated Capacity(25°C)</b>	851Ah	20hr Rate(1.80V/cell)
	800Ah	10hr Rate(1.80V/cell)
	682Ah	5hr Rate(1.75V/cell)
	602Ah	3hr Rate(1.70V/cell)
	461Ah	1hr Rate(1.60V/cell)
<b>Container Material</b>	SAN	
<b>Operating Temperature Range</b>	<b>Discharge</b>	-40 ~ +60°C
	<b>Charge</b>	0 ~ +40°C
	<b>Storage</b>	-20 ~ +40°C
<b>Capacity Effected by Temperature</b>	<b>40°C / 104°F</b>	106%
	<b>25°C / 77°F</b>	100%
	<b>0°C / 32°F</b>	86%
	<b>-20°C / -4°F</b>	60%
<b>Charge Voltage</b>	<b>Float Voltage</b>	2.23V/cell@25°C, Compensation Factor: -3mV/cell/°C
	<b>Equalize Voltage</b>	2.35 -2.40V/cell@25°C, Compensation Factor: -3mV/cell/°C
	<b>Cycle Voltage</b>	2.40 -2.50V/cell@25°C, Compensation Factor: -5mV/cell°C
<b>Max Charging Current</b>	160A (0.2C)	
<b>Max. Discharge Current (5S)</b>	4800A	
<b>Internal Resistance</b>	0.36mΩ	
<b>Self Discharge</b>	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	462	375	244	186	129	92.8	79.0	41.9
1.80V/cell	549	404	257	192	133	95.7	80.0	42.6
1.75V/cell	600	424	268	196	136	97.9	82.6	43.8
1.70V/cell	624	436	275	201	139	100	83.8	44.5
1.65V/cell	651	450	281	204	141	101	84.2	44.8
1.60V/cell	673	461	287	207	142	102	84.8	45.1

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

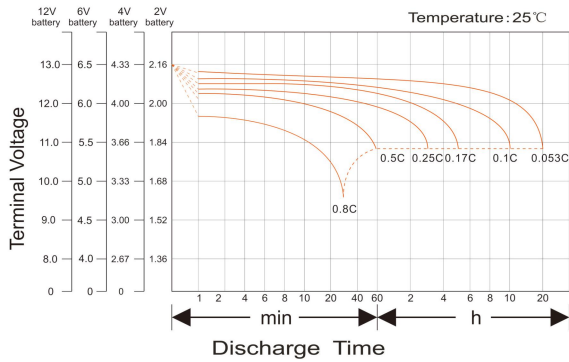
F.V/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1090	750	508	386	259	191	158	83.5
1.80V/cell	1134	806	528	406	266	196	165	87.4
1.75V/cell	1181	854	548	417	278	206	173	91.8
1.70V/cell	1231	908	564	428	289	210	177	93.8
1.65V/cell	1290	970	572	434	293	212	179	95.0
1.60V/cell	1362	1043	575	437	295	214	180	95.7

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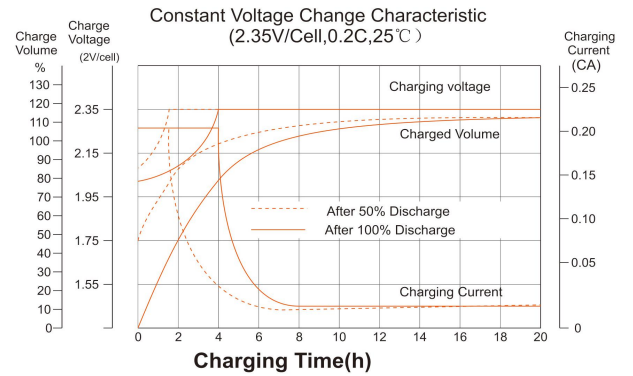
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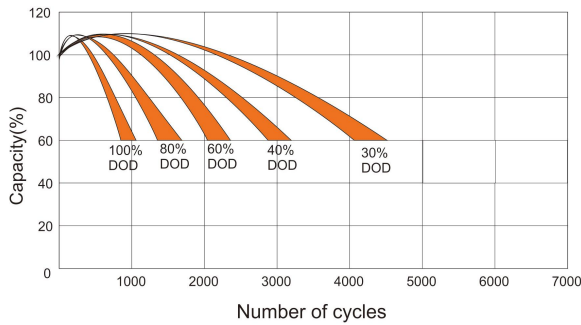
### Discharge Characteristics Curve



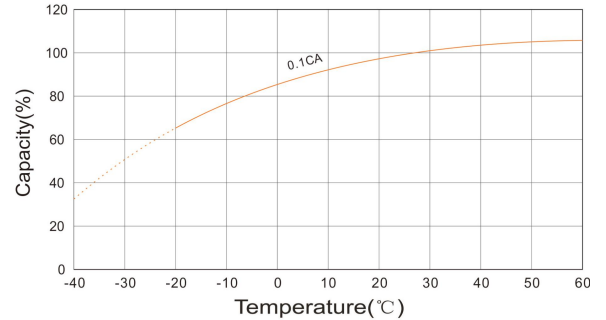
### Charging Characteristics Curve



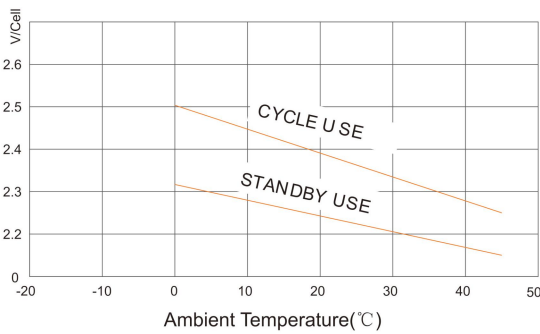
### Cycle life in relation to depth of Discharge



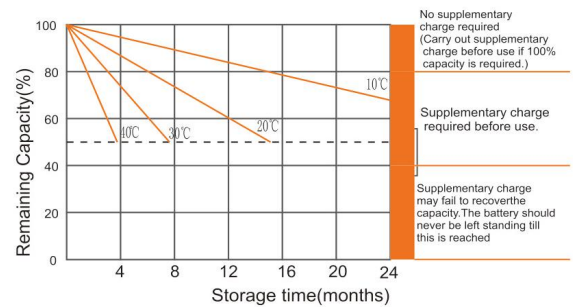
### Temperature effects on Capacity



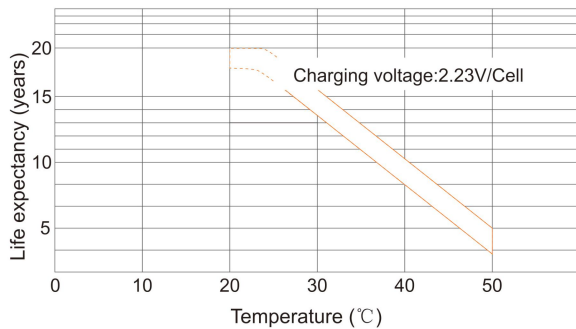
### Relationship between charging voltage and temperature



### Self-discharge Characteristics



### Temperature effects on Float life



### Life Characteristics of Standby use

