

### OPzS Series Battery

SPACEFLIGHT OPzS Series battery is Tubular Flooded battery, designed with an innovative tubular plates which provide greater capacity and enhanced cycle life. The battery has been specifically designed for longer life, greater reliability and strong resilience to high temperature making them ideal for critical power applications and energy storage.

### Applications

- Solar and wind power systems
- Uninterruptible power supplies
- Communication systems
- Telecommunication systems
- Emergency Power Systems

### General Features

- 20 years designed floating life(25°C)
- Non-spillable construction
- Sealed and maintenance-free
- Advanced tubular positive plates
- Excellent recovery from deep discharge
- Longer Life and low self-discharge

### Standards

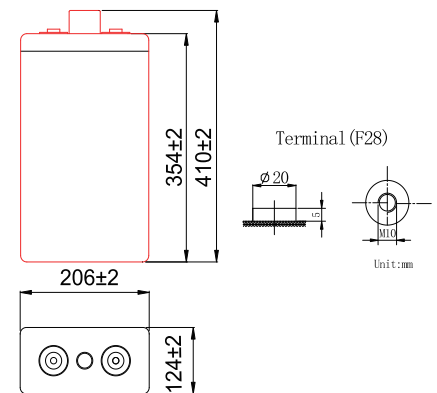
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

### Specifications

Rated Voltage	2V	
Nominal Capacity	250Ah	(C <sub>10</sub> , 1.8V)
Approx Weight	Without Electrolyte 15.0kg/With Electrolyte 20.8kg	
Terminal	F28	
Rated Capacity(25°C)	367 Ah	( 240hr, 1.53A, 1.85V)
	300 Ah	(100hr, 3.0A, 1.85V)
	250 Ah	(10hr, 25.0A, 1.80V)
	210 Ah	(5hr, 42.0A, 1.80V)
Max.Discharge/Charge Current	1250A(5s)/62.5A	
Max.Short Circuit Current	3000A	
Internal Resistance(25°C)	Approx 1.2mΩ	
Operating Temp.Range	Discharge	-20~60°C(-4~140°F)
	Charge	-10~50°C(14~122°F)
	Storage	-20~60°C(-4~140°F)
Nominal operating temperature	25±5°C	
Charge Voltage @25°C(77°F)	Cycle Use	Initial Charging Current less than 62.5A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 62.5A. Voltage 2.23V~2.25V at 25°C(77°F)Temp. Coefficient -3mV/°C
Temperature effects on capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
	-15°C (5°F)	65%
Self Discharge(25°C)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	82%
	Capacity after 12 months storage	65%



### Dimensions unit:mm



Length	206±2mm (8.11 inches)
Width	124±2mm (4.88 inches)
Container Height	354±2mm (13.9 inches)
Total Height	410±2mm (16.1 inches)

### Battery Construction

Component	Positive plate	Negative plate	Container	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS(UL94-HB) or FR(UL94-V0)	Rubber	Copper	PVC	Sulfuric acid

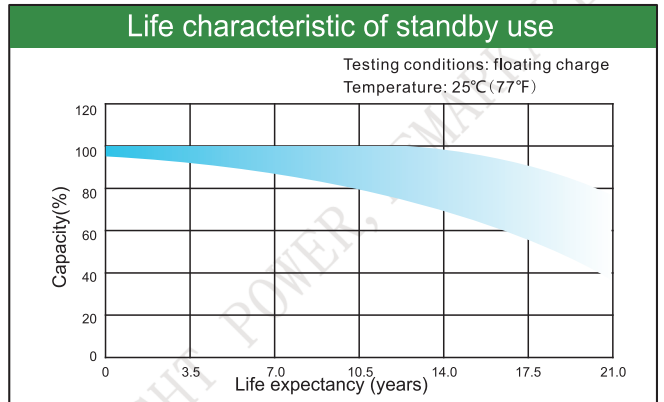
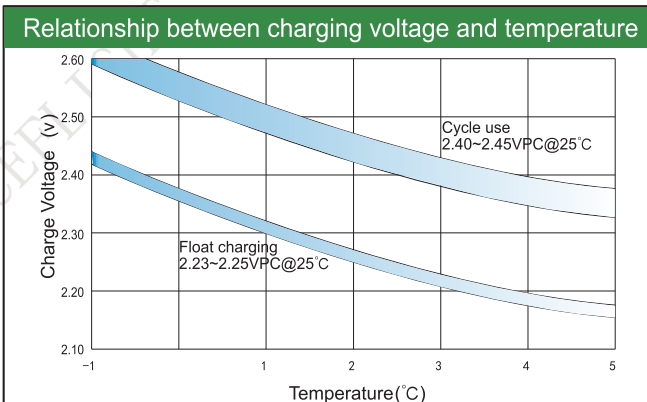
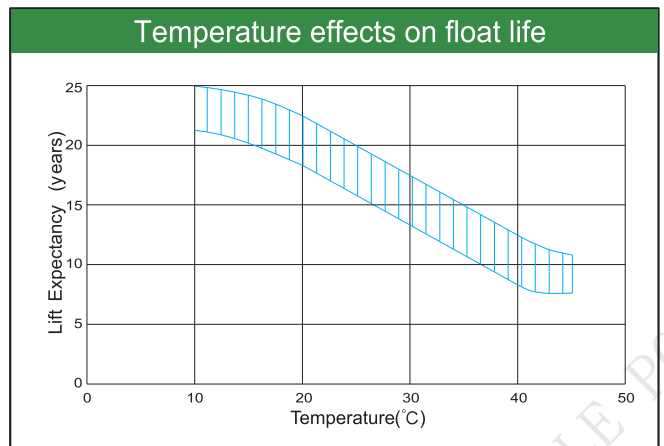
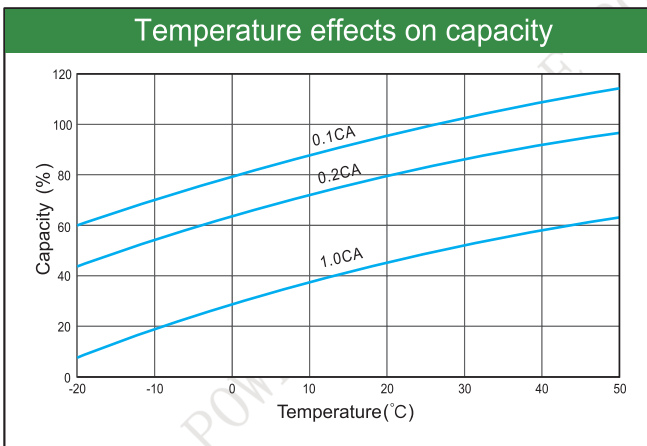
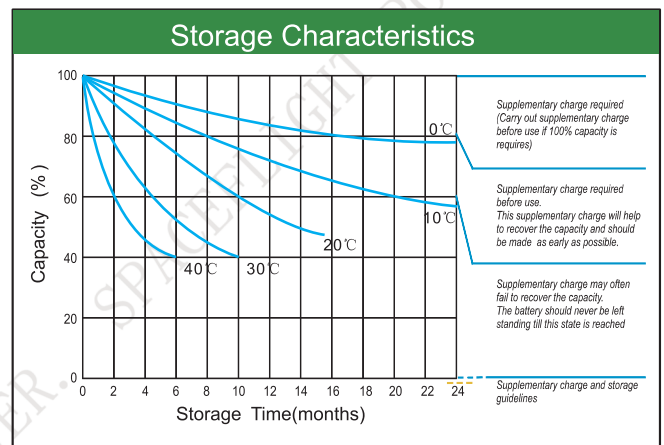
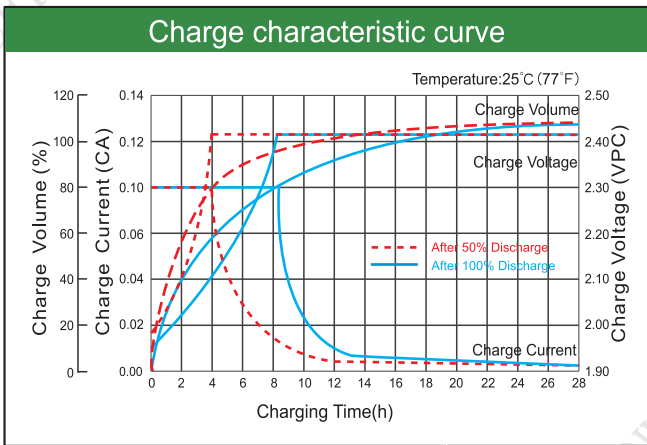
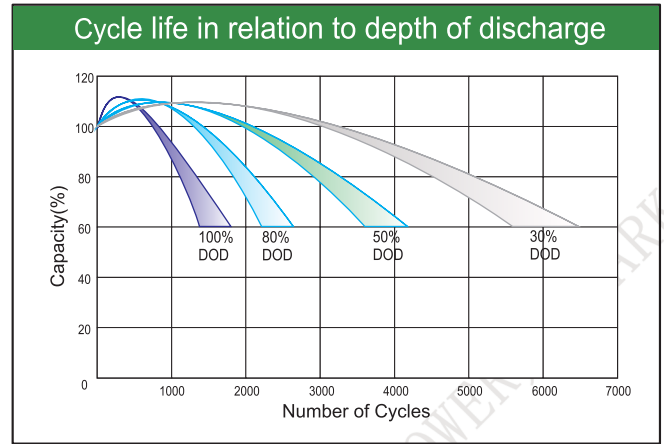
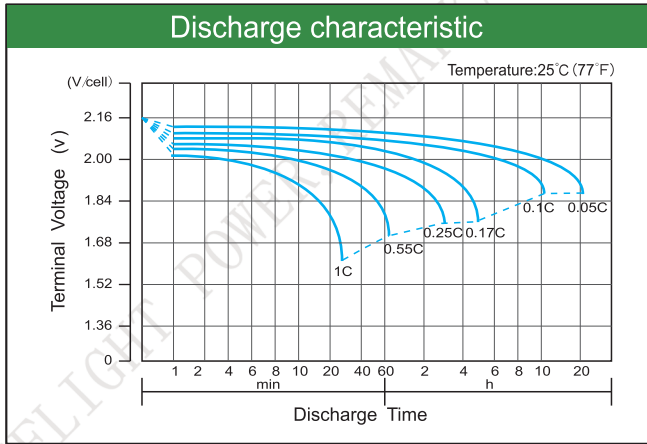
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	126	63.8	43.5	25.5	-----	-----	-----	-----	-----
1.75V	118	62.5	42.5	25.5	13.3	7.25	-----	-----	-----
1.80V	110	59.3	42.0	25.0	13.0	7.25	-----	-----	-----
1.85V	108	58.0	39.5	24.3	12.8	7.00	3.00	2.60	1.53
1.90V	101	55.0	38.0	23.3	12.0	6.75	2.95	2.55	1.50

### Constant Power Discharge (Watts/cell) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	237	121	83.0	49.3	-----	-----	-----	-----	-----
1.75V	223	120	81.8	49.3	26.4	14.5	-----	-----	-----
1.80V	210	114	81.0	49.0	25.9	14.4	-----	-----	-----
1.85V	208	113	77.5	48.0	25.5	14.2	6.10	5.30	3.13
1.90V	197	108	75.8	46.5	24.2	13.7	6.00	5.23	3.08

Note: The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum.



Factory address: Fukang Industrial Zone, Longnan, Ganzhou, Jiangxi Province, China.  
 Shenzhen Office: RM208-210, Building D, Tongju industrial Park, No.4, Longping West Road, Longgang District, Shenzhen.  
 TEL: +86-755-28288189  
[sales@sfbattery.com](mailto:sales@sfbattery.com) [www.sfbattery.com](http://www.sfbattery.com)