

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

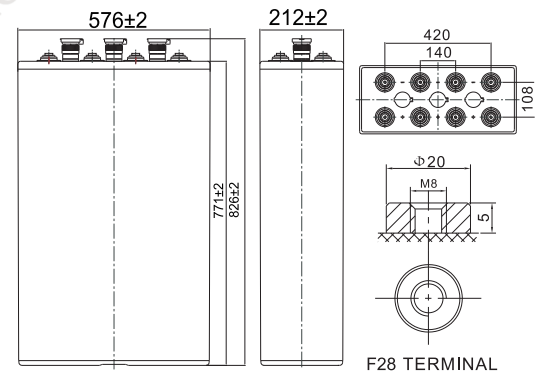
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001, ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	2V	
Nominal Capacity	3000Ah	(C ₁₀ , 1.8V)
Approx Weight	Without Electrolyte 163.0kg/With Electrolyte 234.5kg	
Terminal	F28	
Rated Capacity(25°C)	3600 Ah	(120hr, 30.0A, 1.85V)
	3470 Ah	(48hr, 72.3A, 1.85V)
	3000 Ah	(10hr, 300.0A, 1.80V)
	2625 Ah	(5hr, 525.0A, 1.80V)
Max. Discharge/Charge Current	15000A(5s) / 750A	
Max. Short Circuit Current	19200A	
Internal Resistance(25°C)	Approx 0.20mΩ	
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 750A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 750A. 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	576±2mm (22.7 inches)
Width	212±2mm (8.35 inches)
Container Height	771±2mm (30.4 inches)
Total Height	826±2mm (32.5 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

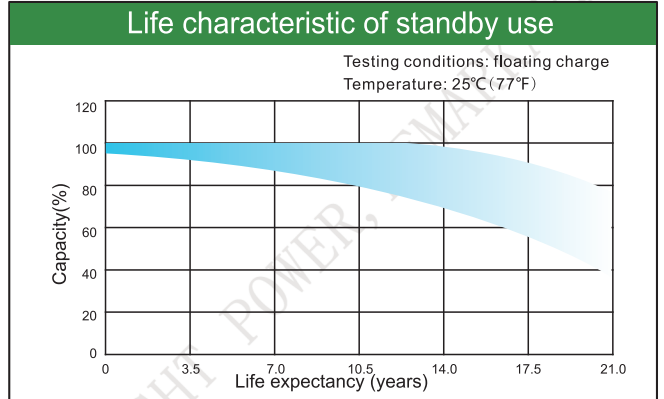
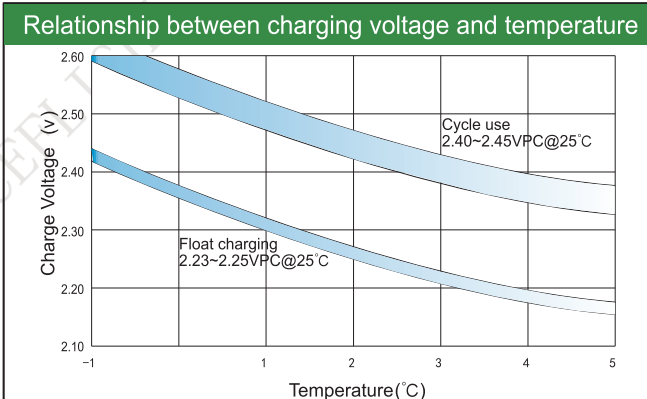
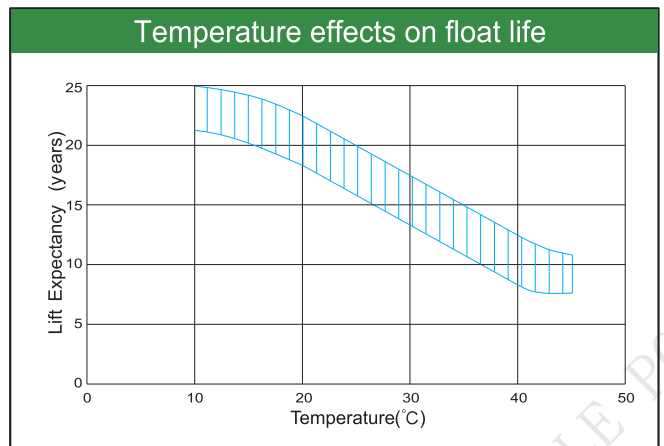
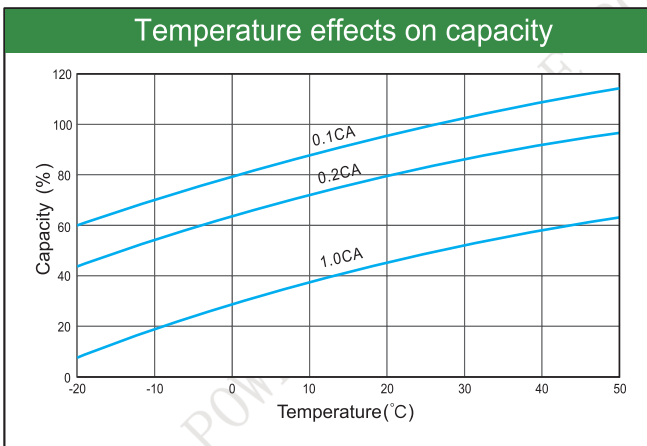
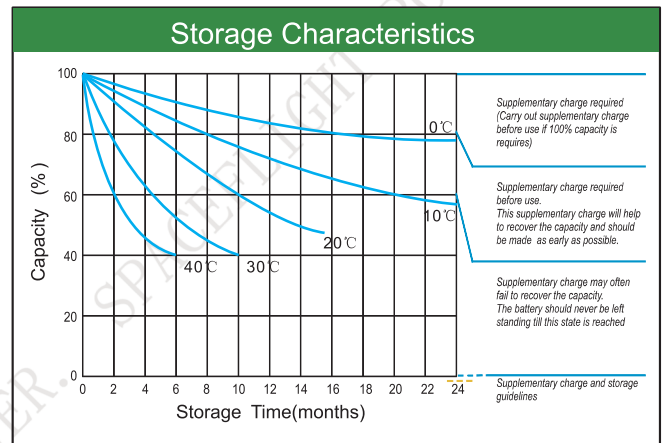
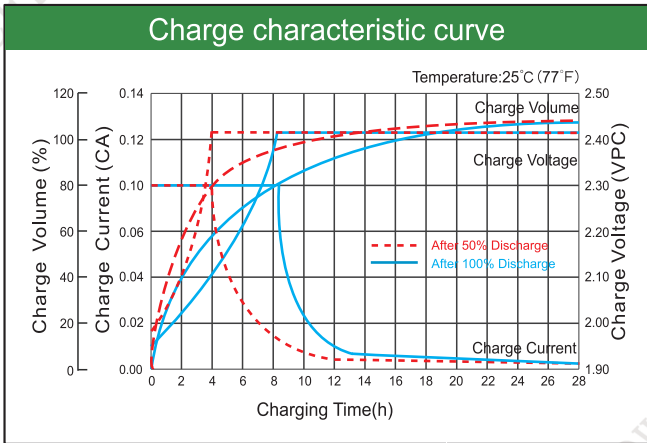
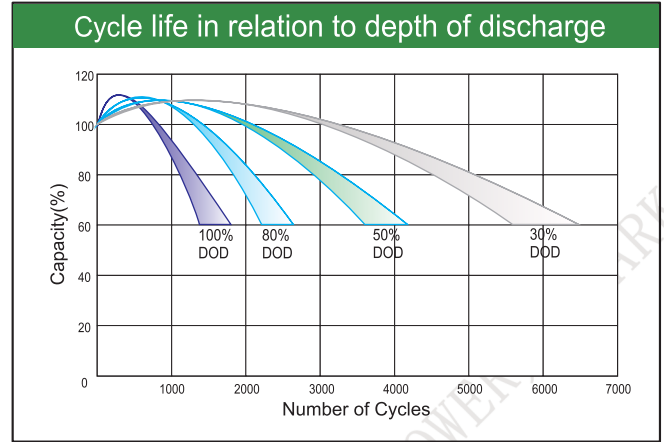
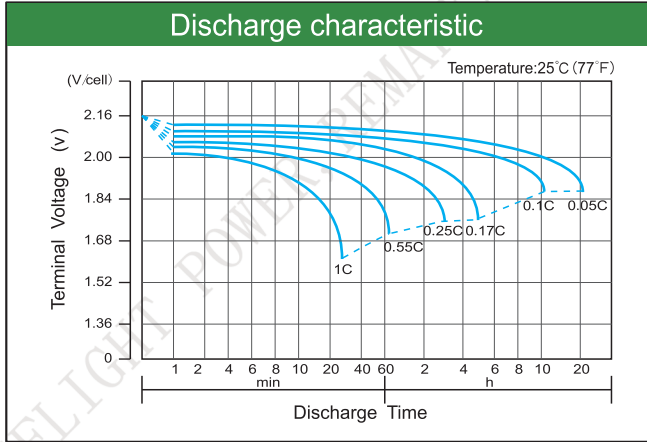
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	8h	10h	20h	24h	48h	120h
1.70V	1620	771	543	354	303	163	143	-----	-----
1.75V	1572	765	540	351	303	163	142	-----	-----
1.80V	1536	741	525	339	300	162	142	72.3	-----
1.85V	1440	696	495	318	286	155	134	72.3	30.0

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

E.V/Time	1h	3h	5h	8h	10h	20h	24h	48h	120h
1.70V	3060	1512	1072	700	606	328	287	-----	-----
1.75V	3000	1500	1066	696	600	328	286	-----	-----
1.80V	2916	1452	1032	676	598	324	283	146	-----
1.85V	2700	1356	960	628	556	300	270	146	61.2

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 www.sfbattery.com