

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

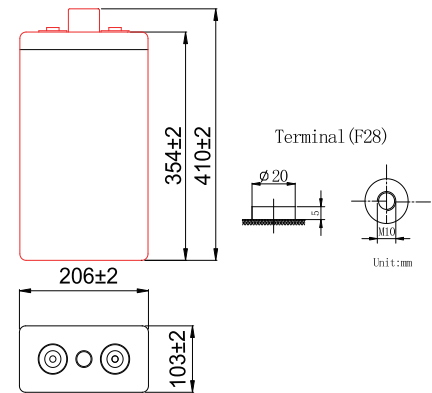
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001, ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	2V	
Nominal Capacity	200Ah	(C ₁₀ , 1.8V)
Approx Weight	Without Electrolyte 12.5kg/With Electrolyte 17.2kg	
Terminal	F28	
Rated Capacity(25°C)	293 Ah	(240hr, 1.22A, 1.85V)
	240 Ah	(100hr, 2.4A, 1.85V)
	200 Ah	(10hr, 20.0A, 1.80V)
	168 Ah	(5hr, 33.6A, 1.80V)
Max.Discharge/Charge Current	1000A(5s) / 50A	
Max.Short Circuit Current	2400A	
Internal Resistance(25°C)	Approx 1.5mΩ	
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 50A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 50A. 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	103±2mm (4.05 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

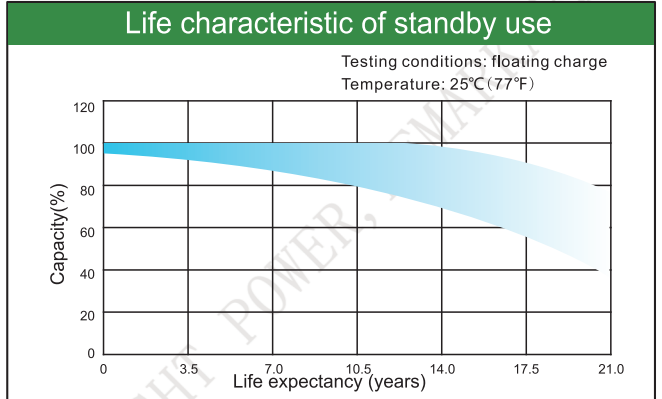
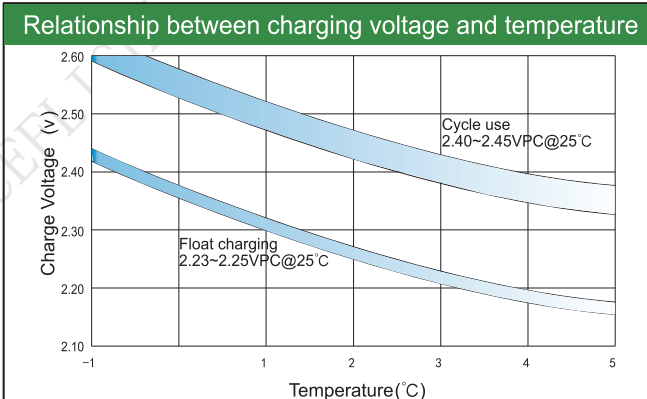
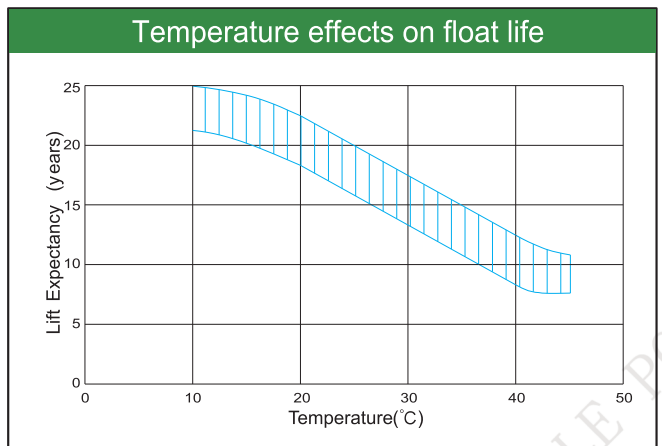
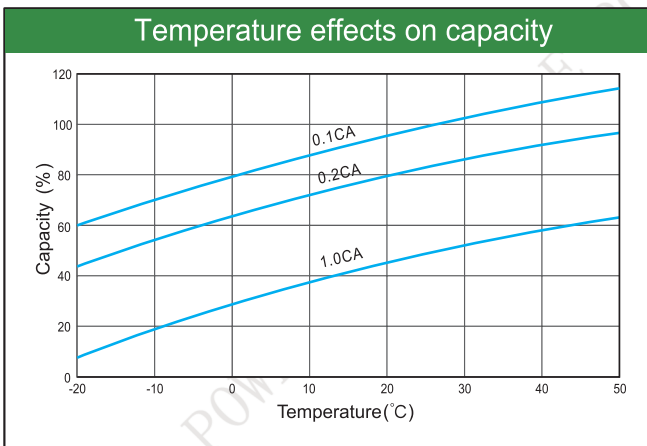
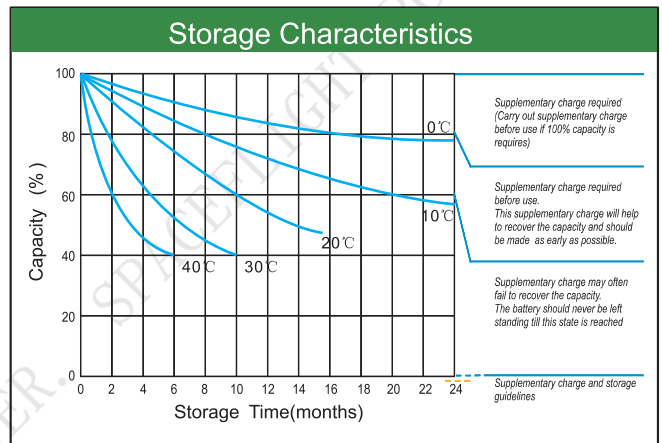
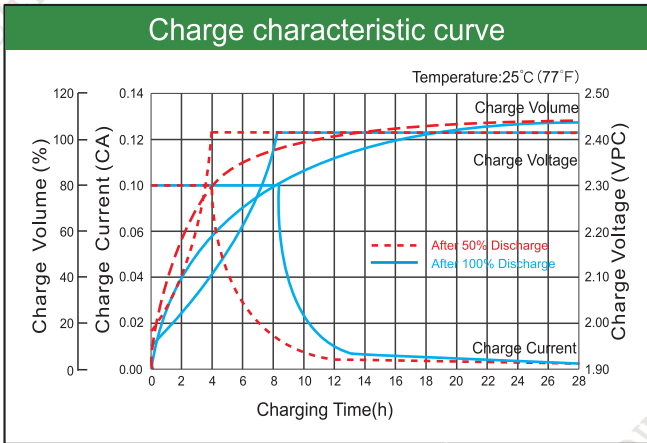
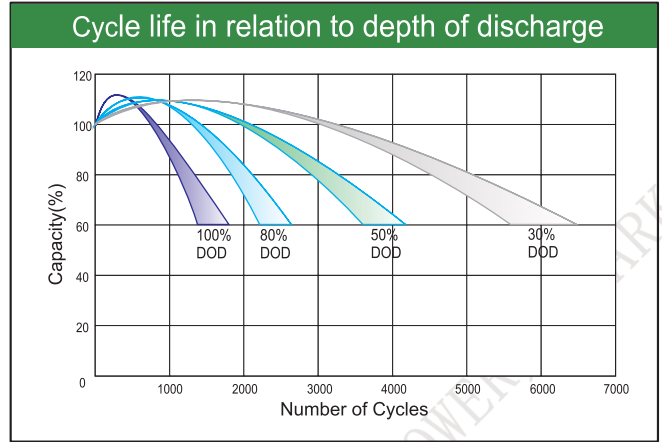
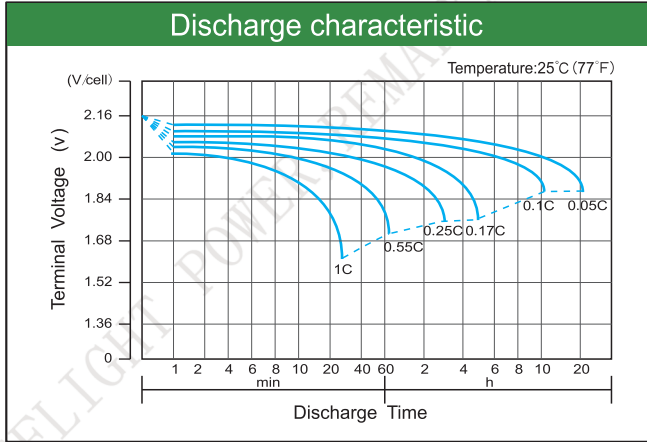
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	101.0	51.0	34.8	20.4	-----	-----	-----	-----	-----
1.75V	94.4	50.0	34.0	20.4	10.6	5.80	-----	-----	-----
1.80V	88.2	47.4	33.6	20.0	10.4	5.80	-----	-----	-----
1.85V	86.4	46.4	31.6	19.4	10.2	5.60	2.40	2.08	1.22
1.90V	81.0	44.0	30.6	18.6	9.6	5.40	2.36	2.04	1.20

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

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	189	97.0	66.4	39.4	-----	-----	-----	-----	-----
1.75V	179	95.6	65.4	39.4	21.1	11.6	-----	-----	-----
1.80V	168	91.0	64.8	39.2	20.7	11.7	-----	-----	-----
1.85V	166	90.0	62.0	38.4	20.4	11.3	4.88	4.24	2.50
1.90V	158	86.2	60.6	37.2	19.3	11.0	4.80	4.18	2.46

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



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