

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

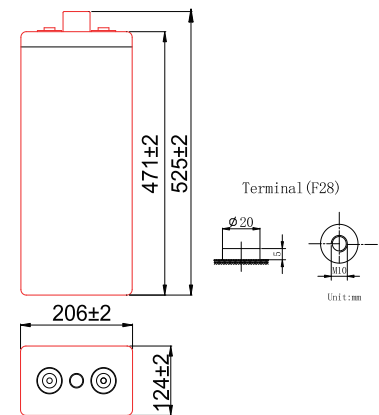
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	2V	
Nominal Capacity	350Ah	(C ₁₀ , 1.8V)
Approx Weight	Without Electrolyte 19.4kg/With Electrolyte 26.9kg	
Terminal	F28	
Rated Capacity(25°C)	513 Ah	(240hr,2.14A, 1.85V)
	420 Ah	(100hr,4.20A, 1.85V)
	350 Ah	(10hr,35.0A, 1.80V)
	294 Ah	(5hr,58.8A, 1.80V)
Max.Discharge/Charge Current	1750A(5s)/87.5A	
Max.Short Circuit Current	3400A	
Internal Resistance(25°C)	Approx 0.9mΩ	
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 87.5A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 87.5A. 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	471±2mm (18.5 inches)
Total Height	525±2mm (20.7 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

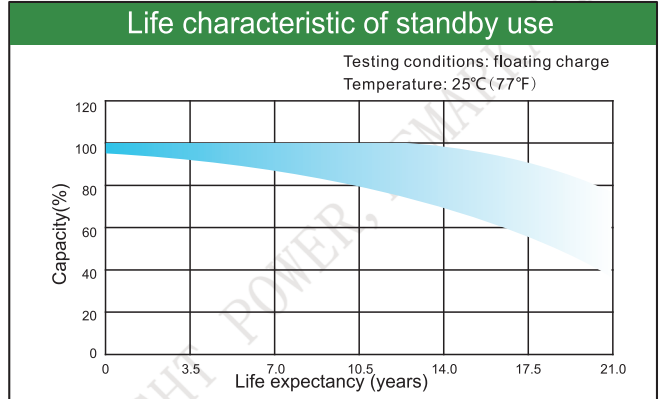
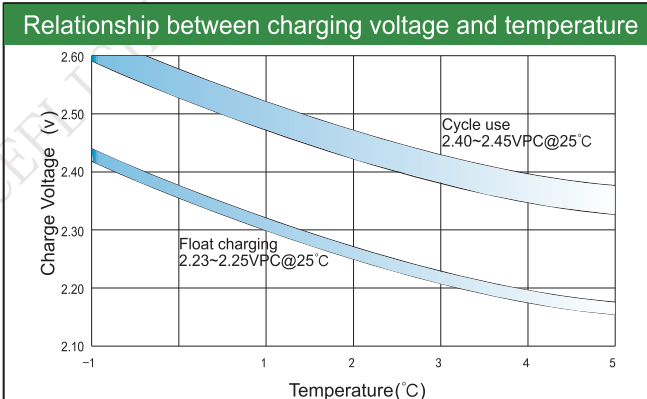
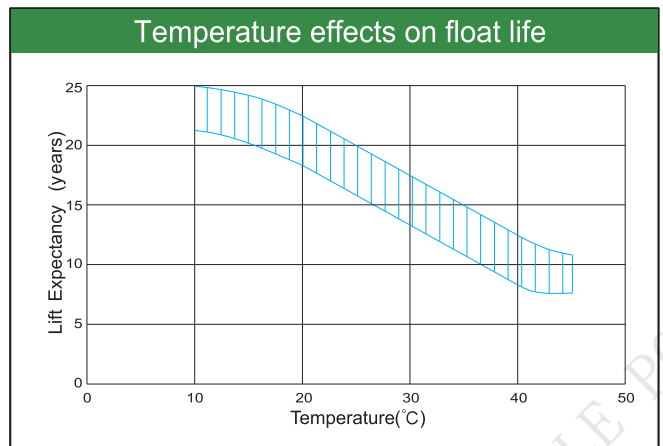
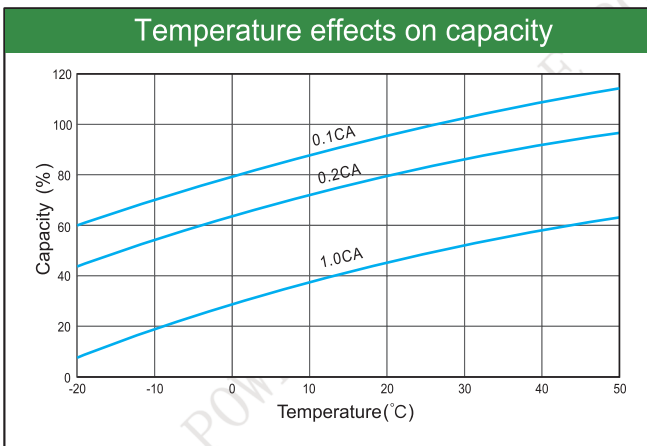
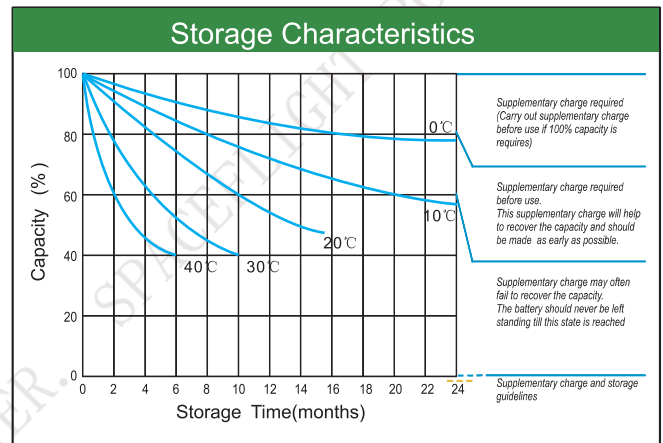
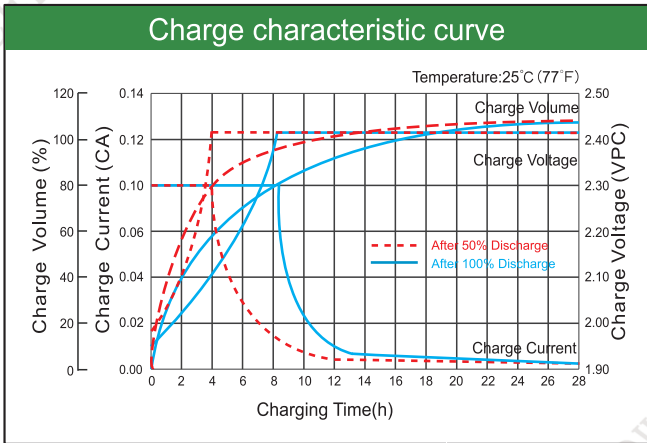
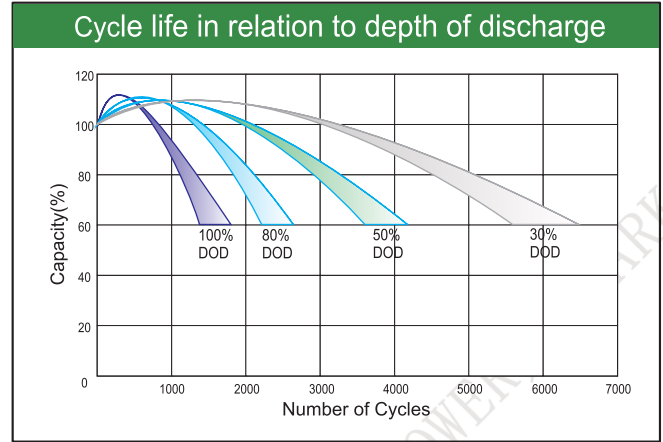
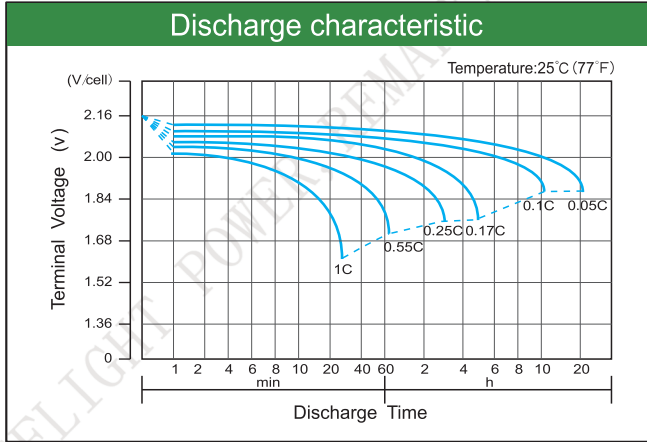
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	177	89.3	60.9	35.7	-----	-----	-----	-----	-----
1.75V	165	87.5	59.5	35.7	18.6	10.2	-----	-----	-----
1.80V	154	83.0	58.8	35.0	18.2	10.2	-----	-----	-----
1.85V	151	81.2	55.3	34.0	17.9	9.80	4.20	3.64	2.14
1.90V	142	77.0	53.6	32.6	16.8	9.45	4.13	3.57	2.10

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

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	331	170	116	69.0	-----	-----	-----	-----	-----
1.75V	313	167	114	69.0	36.9	20.4	-----	-----	-----
1.80V	294	159	113	68.6	36.2	20.3	-----	-----	-----
1.85V	291	158	109	67.2	35.7	19.8	8.54	7.42	4.38
1.90V	276	151	106	65.1	33.8	19.2	8.40	7.32	4.31

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



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