

### 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

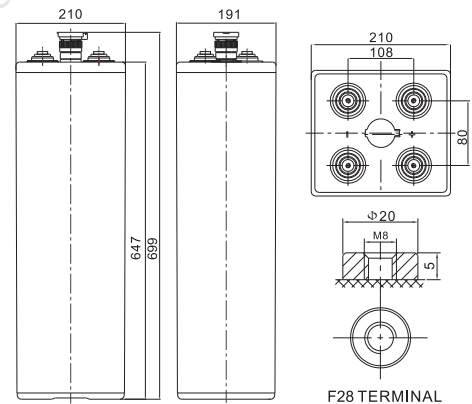
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

### Specifications

Rated Voltage	2V	
Nominal Capacity	800Ah	(C <sub>10</sub> , 1.8V)
Approx Weight	Without Electrolyte 44.5kg/With Electrolyte 61.3kg	
Terminal	F28	
Rated Capacity(25°C)	1171 Ah	( 240hr,4.88A,1.85V)
	960 Ah	(100hr,9.60A,1.85V)
	800 Ah	(10hr,80.0A,1.80V)
	672 Ah	(5hr,134.0A,1.80V)
Max.Discharge/Charge Current	4000A(5s) / 200A	
Max.Short Circuit Current	6650A	
Internal Resistance(25°C)	Approx 0.60mΩ	
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 200A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 200A. 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	210±2mm (8.27 inches)
Width	191±2mm (7.52 inches)
Container Height	647±2mm (25.4 inches)
Total Height	699±2mm (27.4 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

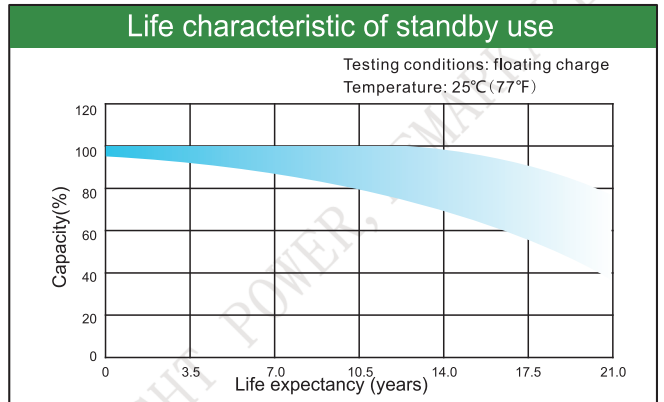
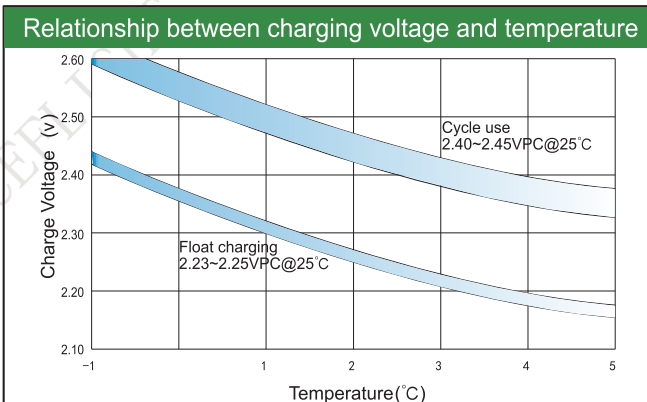
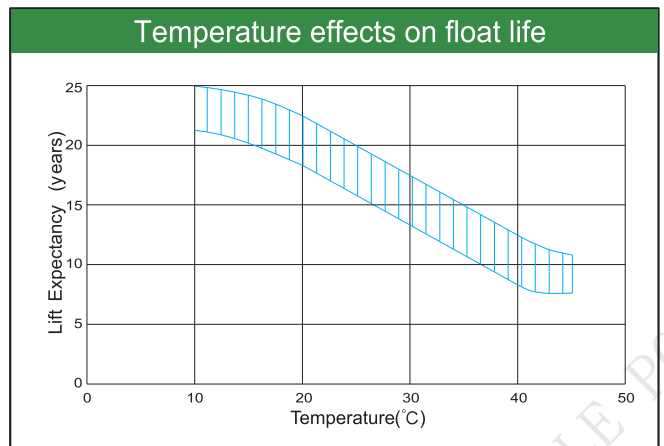
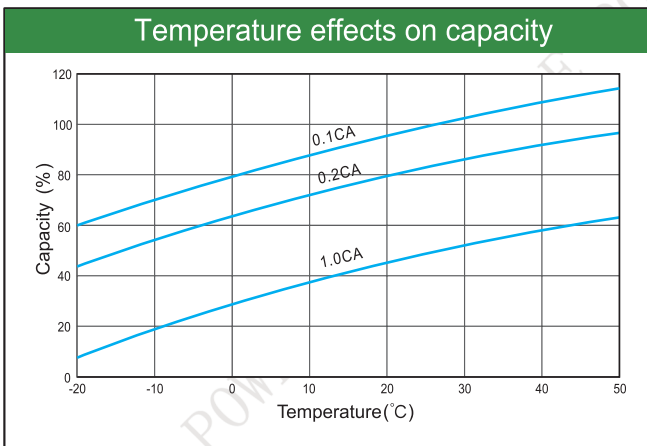
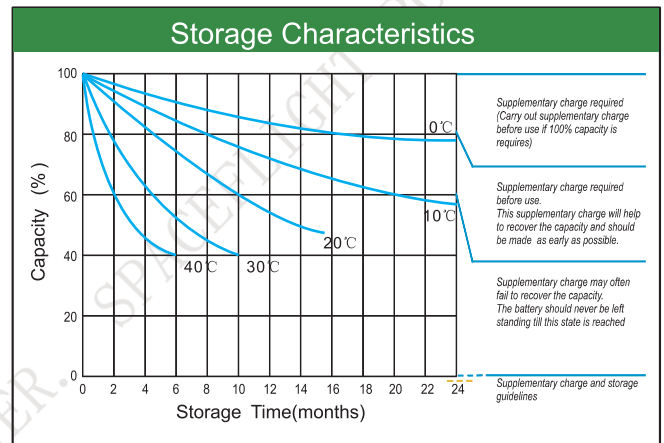
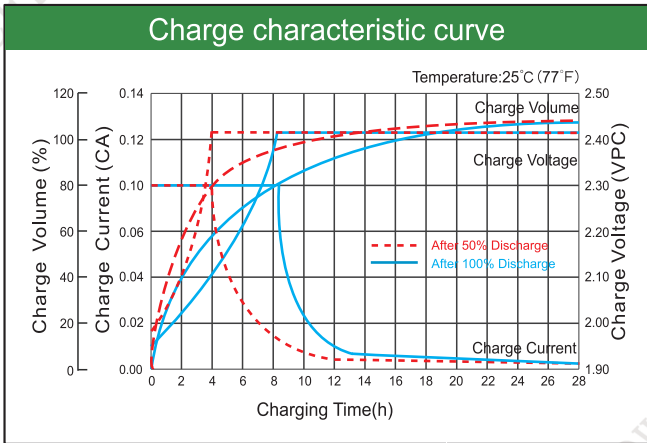
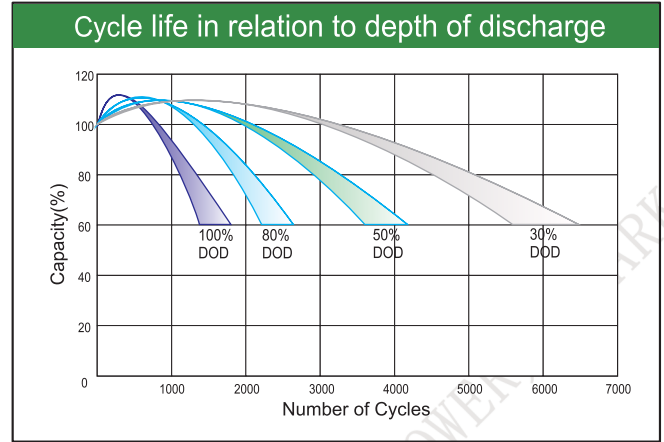
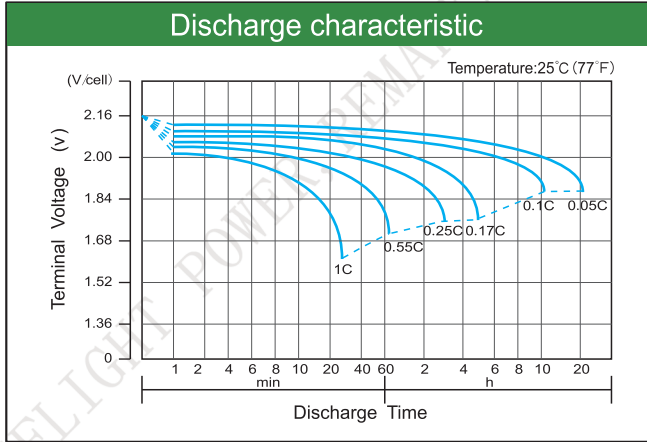
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	398	204	139	81.6	-----	-----	-----	-----	-----
1.75V	376	200	136	81.6	42.4	23.2	-----	-----	-----
1.80V	352	190	134	80.0	41.6	23.2	-----	-----	-----
1.85V	346	186	126	77.6	40.8	22.4	9.60	8.32	4.88
1.90V	324	176	122	74.4	38.4	21.6	9.44	8.16	4.80

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

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	741	381	261	158	-----	-----	-----	-----	-----
1.75V	702	375	257	158	84.8	46.8	-----	-----	-----
1.80V	658	357	254	157	83.2	46.4	-----	-----	-----
1.85V	651	353	243	154	81.6	45.2	19.5	17.0	10.0
1.90V	619	338	238	149	77.2	44.0	19.2	16.7	9.84

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



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