

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

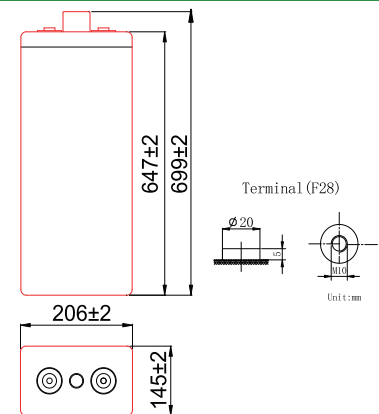
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	2V	
Nominal Capacity	600Ah	(C ₁₀ , 1.8V)
Approx Weight	Without Electrolyte 32kg/With Electrolyte 44.8kg	
Terminal	F28	
Rated Capacity(25°C)	873.6 Ah	(240hr,3.64A,1.85V)
	720 Ah	(100hr,7.20A,1.85V)
	600 Ah	(10hr,60.0A,1.80V)
	505 Ah	(5hr,101.0A,1.80V)
Max.Discharge/Charge Current	3000A(5s)/150A	
Max.Short Circuit Current	5000A	
Internal Resistance(25°C)	Approx 0.65mΩ	
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 150A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 150A. 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	145±2mm (5.71 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

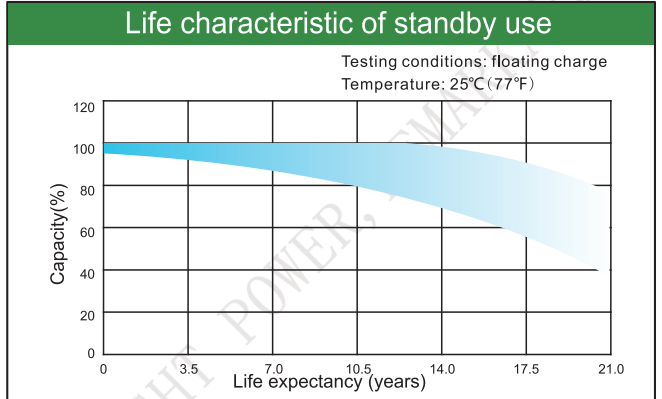
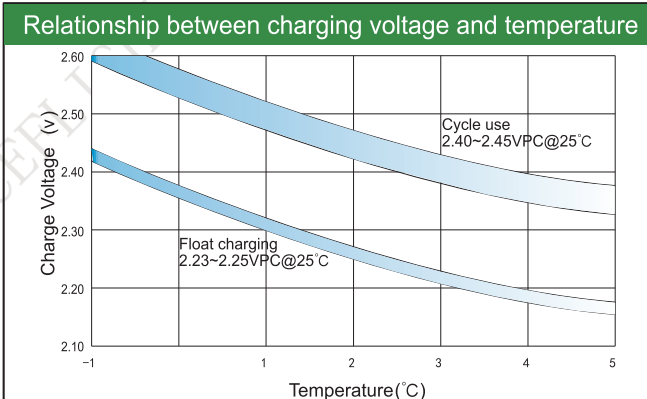
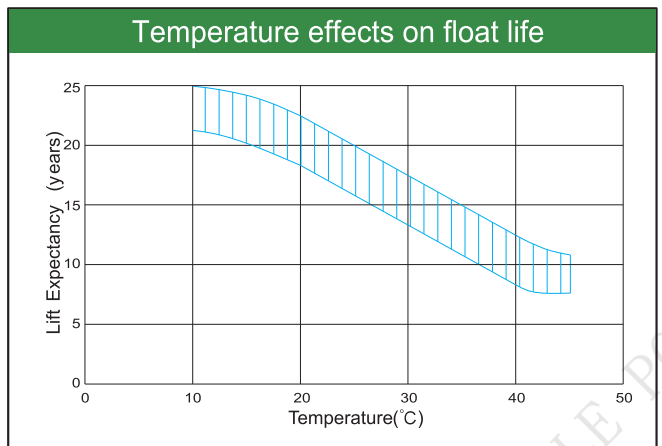
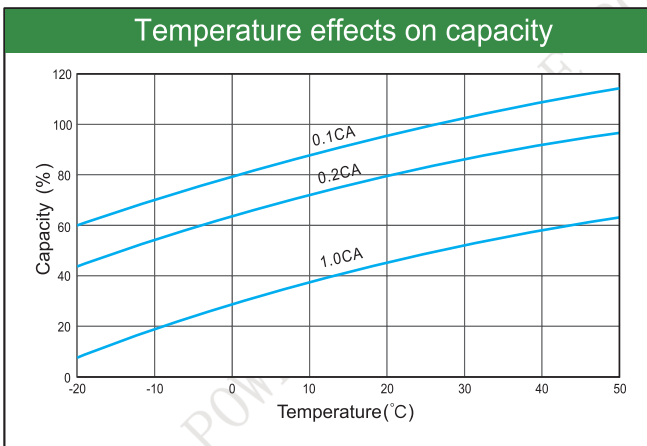
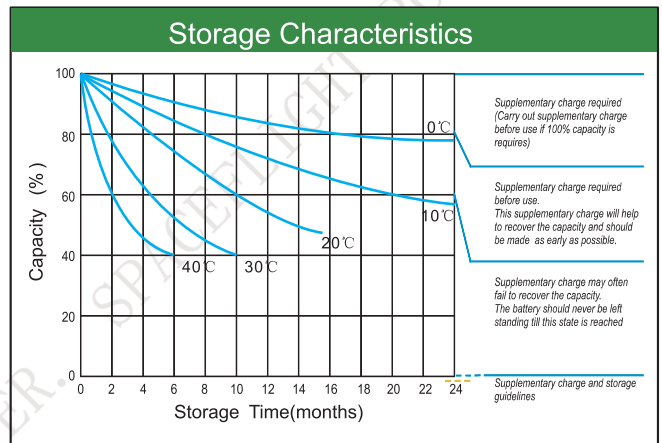
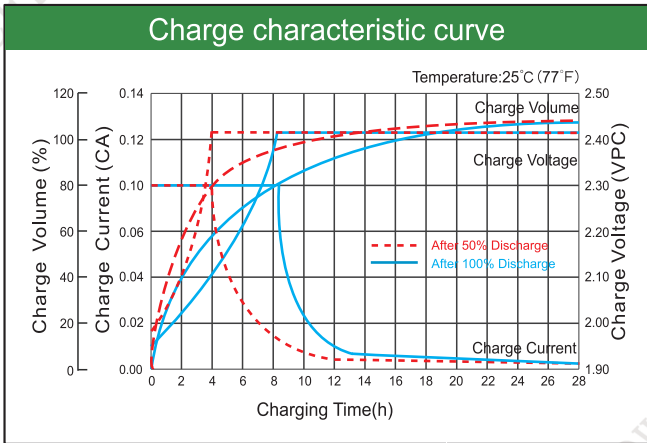
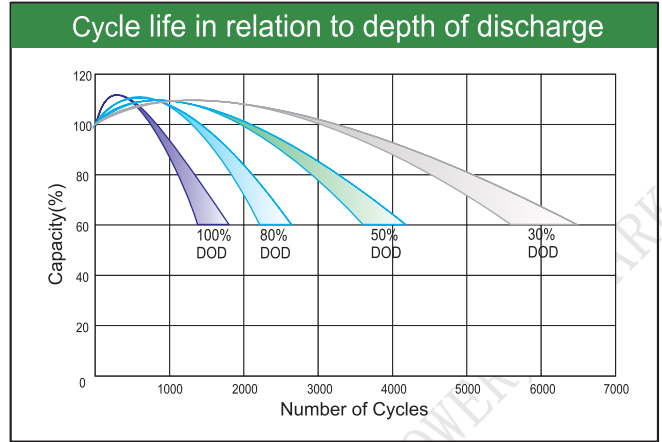
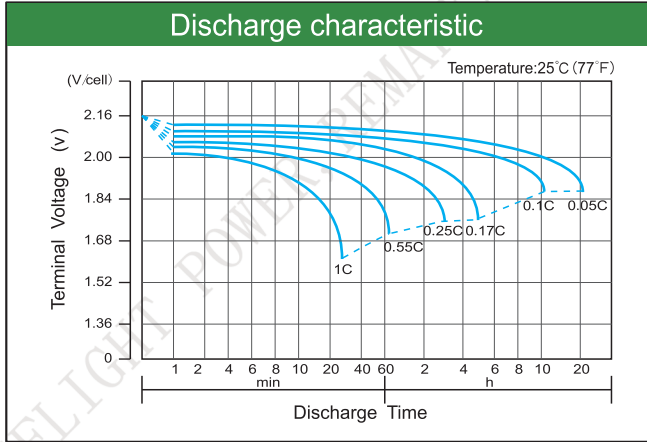
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	304	154	104	61.2	-----	-----	-----	-----	-----
1.75V	283	150	102	61.2	31.8	17.4	-----	-----	-----
1.80V	265	143	101	60.0	31.2	17.4	-----	-----	-----
1.85V	259	139	94.8	58.2	30.6	16.8	7.20	6.24	3.64
1.90V	244	132	91.8	55.8	28.8	16.2	7.08	6.12	3.60

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

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	569	292	199	118	-----	-----	-----	-----	-----
1.75V	536	287	197	118	63.4	35.0	-----	-----	-----
1.80V	504	274	194	118	62.2	34.8	-----	-----	-----
1.85V	498	270	186	115	61.2	34.1	14.6	12.7	7.50
1.90V	473	259	182	112	58.1	33.0	14.4	12.6	7.38

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



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