

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

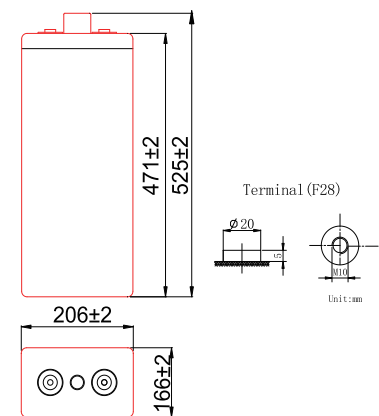
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	2V	
Nominal Capacity	490Ah	(C ₁₀ , 1.8V)
Approx Weight	Without Electrolyte 25.2kg/With Electrolyte 36.1kg	
Terminal	F28	
Rated Capacity(25°C)	727 Ah	(240hr,3.03A, 1.85V)
	600 Ah	(100hr,6.00A, 1.85V)
	490 Ah	(10hr.49.0A, 1.80V)
	420 Ah	(5hr,84.0A, 1.80V)
Max.Discharge/Charge Current	2500A(5s) /122.5A	
Max.Short Circuit Current	4750A	
Internal Resistance(25°C)	Approx 0.7mΩ	
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 122.5A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 122.5A. 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	166±2mm (6.53 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

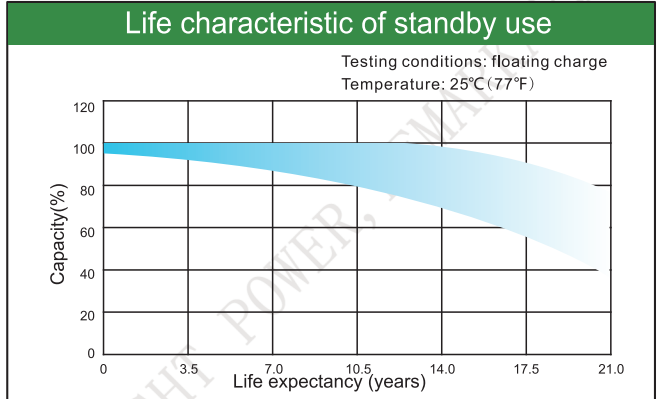
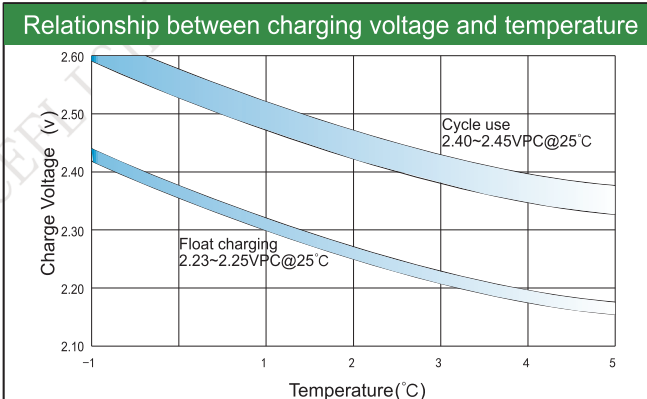
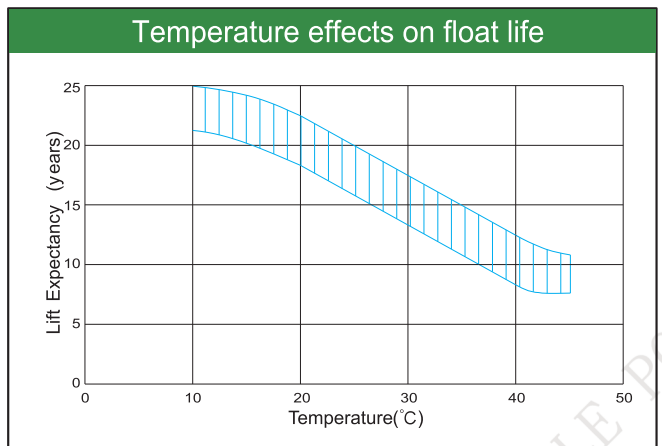
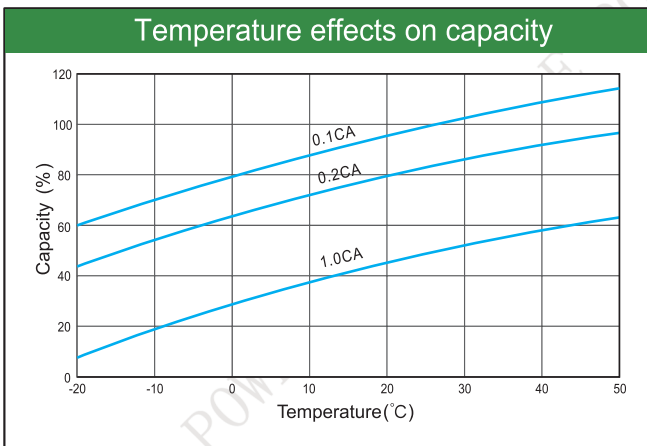
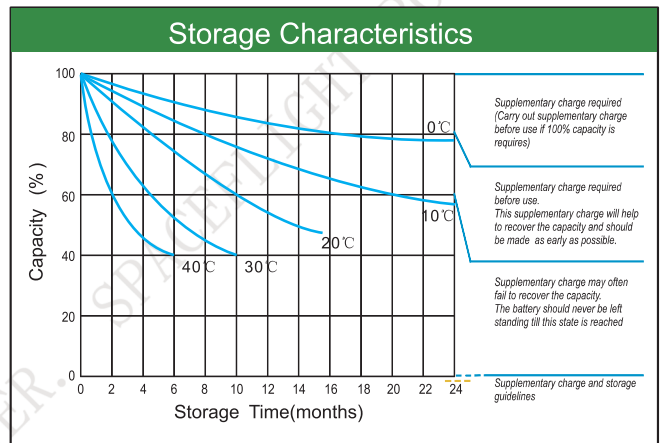
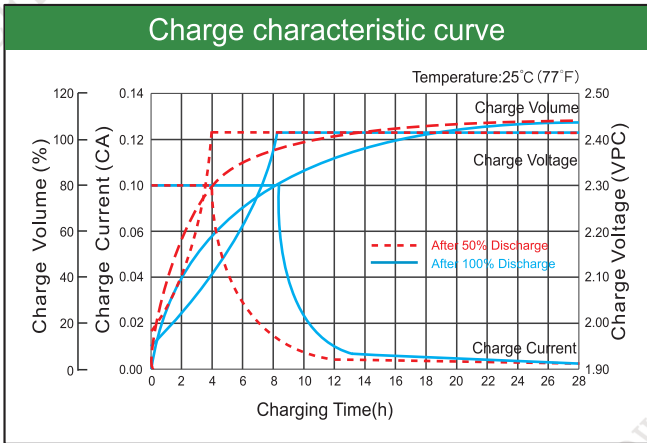
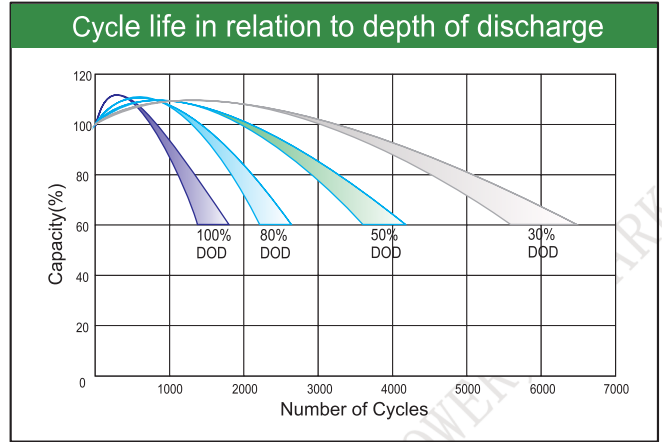
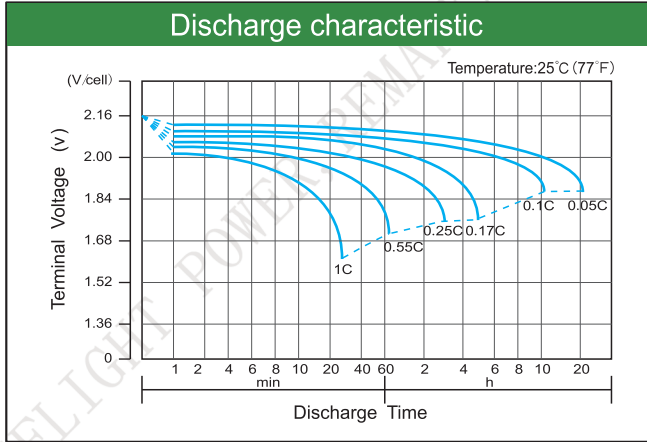
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	253	128	87.0	51.0	-----	-----	-----	-----	-----
1.75V	236	125	85.0	50.5	26.5	14.5	-----	-----	-----
1.80V	221	119	84.0	49.0	26.0	14.5	-----	-----	-----
1.85V	216	116	79.0	48.5	25.5	14.0	6.00	5.20	3.03
1.90V	203	110	76.5	46.5	24.0	13.5	5.90	5.10	3.00

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

E.V/Time	1h	3h	5h	10h	24h	48h	100h	120h	240h
1.70V	474	243	166	98.5	-----	-----	-----	-----	-----
1.75V	447	239	164	98.5	52.8	29.2	-----	-----	-----
1.80V	420	228	162	98.0	51.8	29.0	-----	-----	-----
1.85V	415	225	155	96.0	51.0	28.4	12.2	10.6	6.25
1.90V	394	216	152	93.0	48.4	27.5	12.0	10.5	6.15

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



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