

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

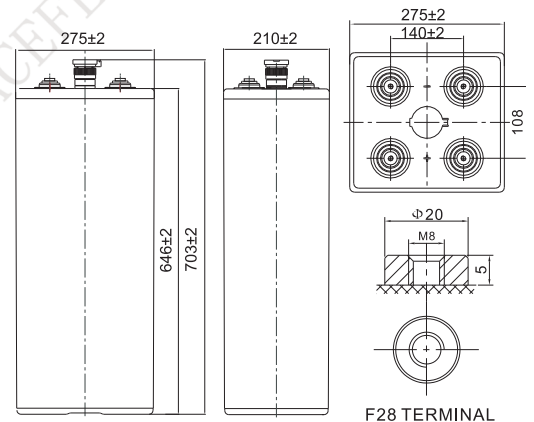
Specifications

Rated Voltage	2V	
Nominal Capacity	1200Ah	(C ₁₀ , 1.8V)
Approx Weight	Without Electrolyte 63.0kg/With Electrolyte 88.0kg	
Terminal	F28	
Rated Capacity(25°C)	1452 Ah	(20hr,72.6A,1.75V)
	1200 Ah	(10hr,120A,1.80V)
	1086 Ah	(5hr,217.2A,1.75V)
	816.7 Ah	(1hr,816.7A,1.60V)
Max.Discharge/Charge Current	6000A(5s) / 300A	
Max.Short Circuit Current	9950A	
Internal Resistance(25°C)	Approx 0.35mΩ	
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 300A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 300A. 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	275±2mm (10.8 inches)
Width	210±2mm (8.27 inches)
Container Height	646±2mm (25.4 inches)
Total Height	703±2mm (27.7inches)

Battery Construction

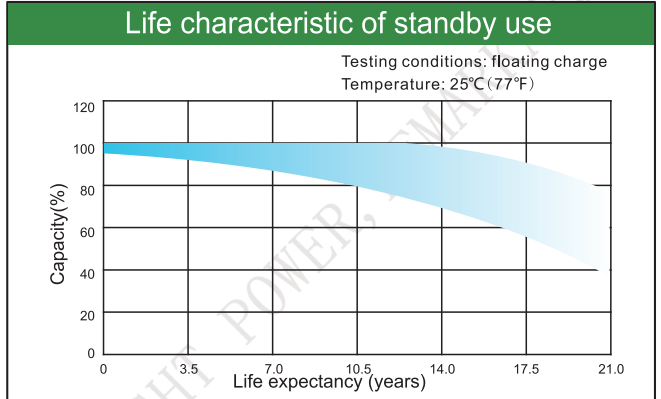
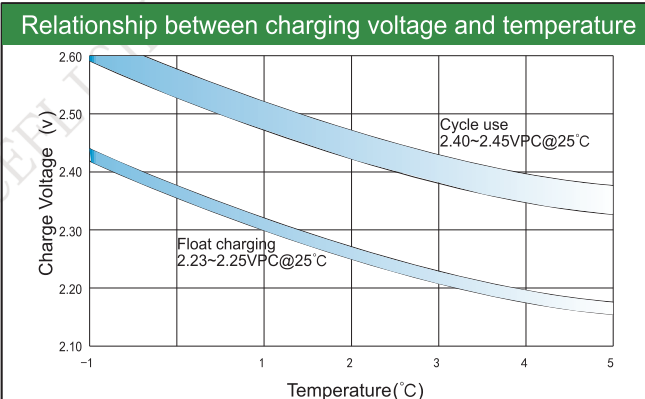
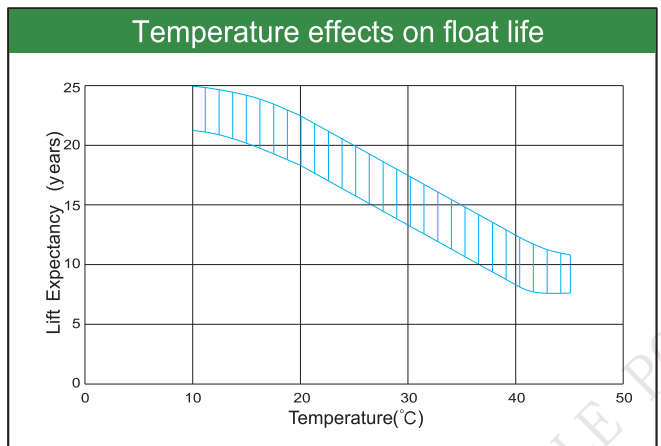
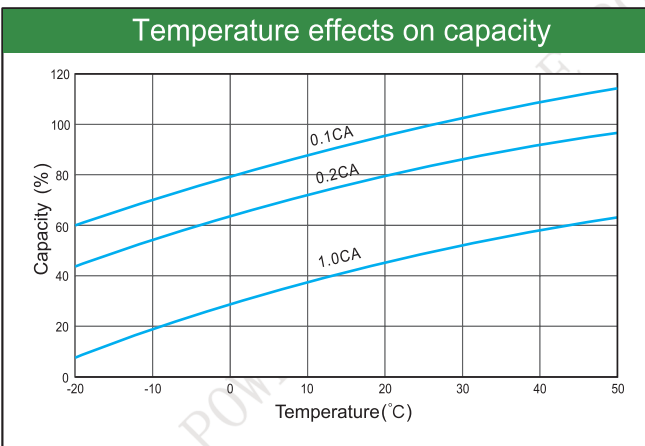
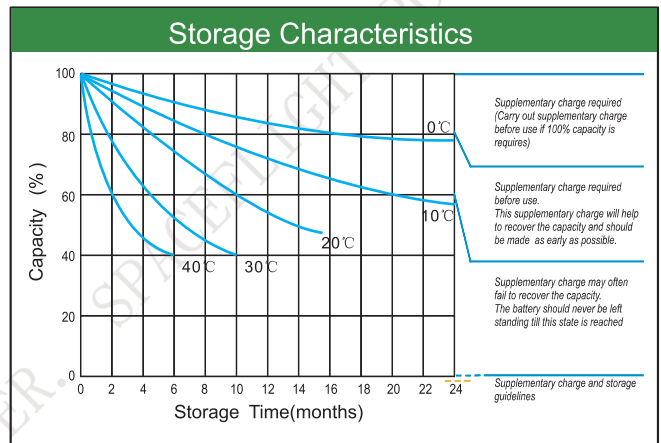
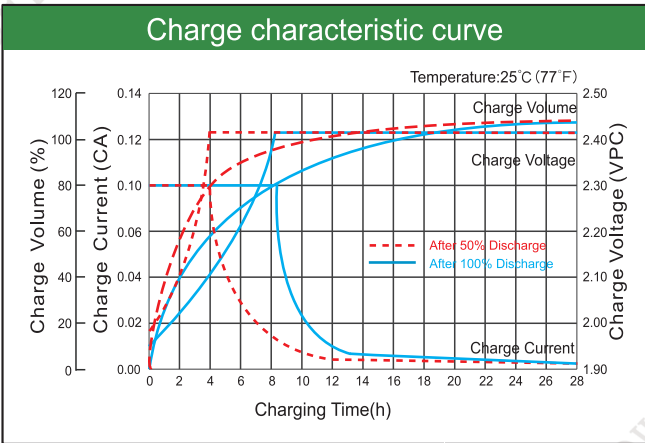
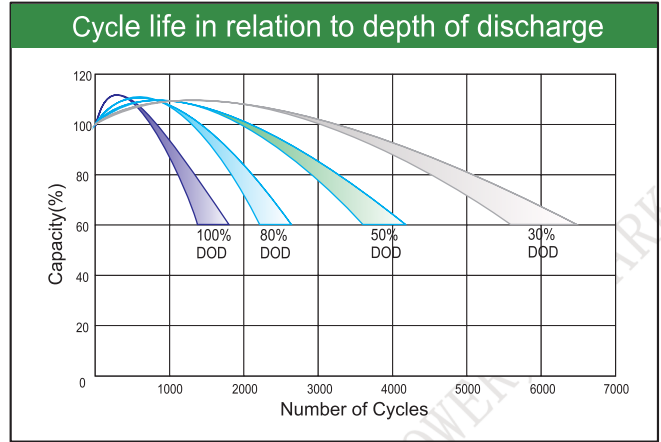
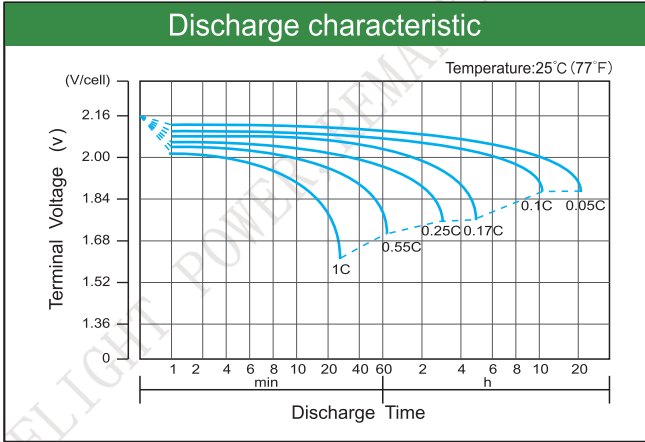
Component	Positive plate	Negative plate	Container	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS(UL94-HB) or FR(UL94-V0)	Rubber	Copper	PVC	Sulfuric acid

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

E.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1266	816.7	483.7	352.2	271.5	227.7	198.4	156.1	131.4	75.5
1.65V	1228	768.6	467.9	343.6	267.7	224.6	195.9	154.8	130.1	74.8
1.70V	1134	744.6	454.8	335.6	263.1	221.2	193.4	153.6	128.8	74.1
1.75V	1017	695.1	435.2	325.2	258.8	217.2	189.6	151.1	126.3	72.6
1.80V	918.8	620.0	403.1	305.7	247.4	207.7	181.4	144.1	120.0	69.0

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

E.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	2142	1393	883.9	660.1	524.8	440.9	385.5	305.9	261.0	150.1
1.65V	2106	1334	860.2	646.6	518.1	436.0	381.7	303.4	259.8	149.3
1.70V	2000	1321	839.1	633.5	510.1	430.2	377.9	300.9	257.3	147.9
1.75V	1844	1264	812.8	619.0	503.4	424.0	371.6	297.1	253.6	145.8
1.80V	1711	1158	762.7	586.7	482.5	406.8	357.0	285.8	243.2	139.8



Factory address: Fukang Industrial Zone, Longnan, Ganzhou, Jiangxi Province, China.
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