

OPzV Series Battery

SPACEFLIGHT OPzV Series battery is Tubular GEL 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 design 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

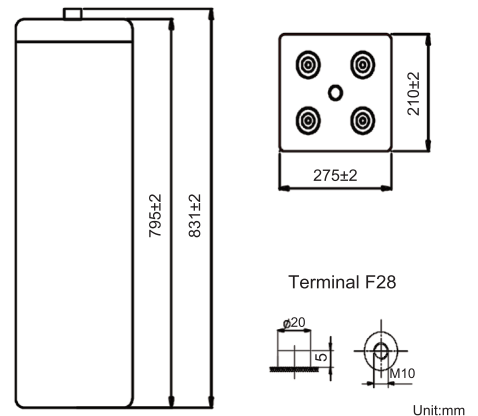
Specifications

Rated Voltage	2V	
Nominal Capacity	1500Ah	(C ₁₀ , 1.80V)
Approx Weight	113.0kg±3%(249.12lbs)	
Terminal	F28	
Rated Capacity(25°C)	1980 Ah	(120hr,16.5A,1.85V)
	1872 Ah	(48hr,39.0A,1.85V)
	1500 Ah	(10hr,150A,1.80V)
	1125 Ah	(3hr,375A,1.80V)
Max.Discharge/Charge Current	7500A(5s)/375A	
Max.Short Circuit Current	7510A	
Internal Resistance(25°C)	Approx 0.25mΩ	
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 375A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 375A. Voltage 2.25V~2.27V 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 (8.26 inches)
Container Height	795±2mm (31.3 inches)
Total Height	831±2mm (32.7 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-SiO ₂	Fumed Silicon

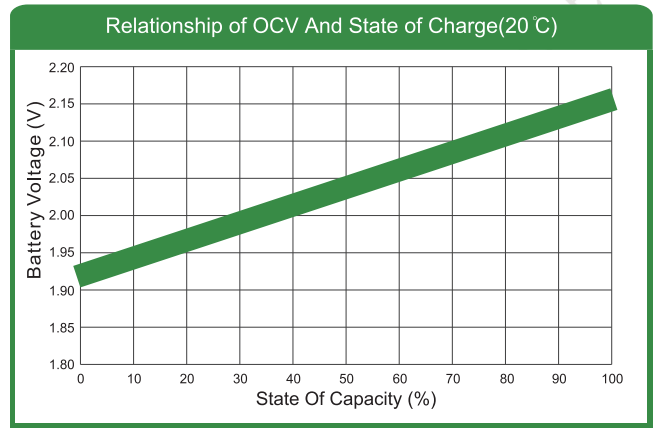
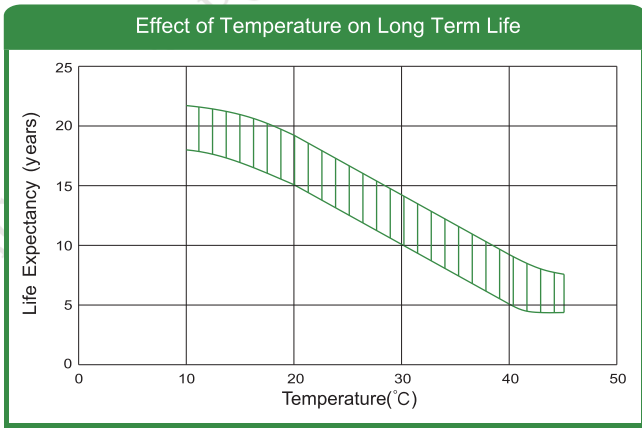
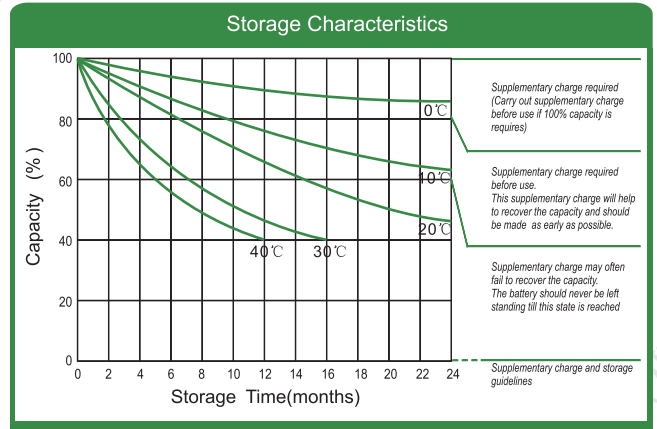
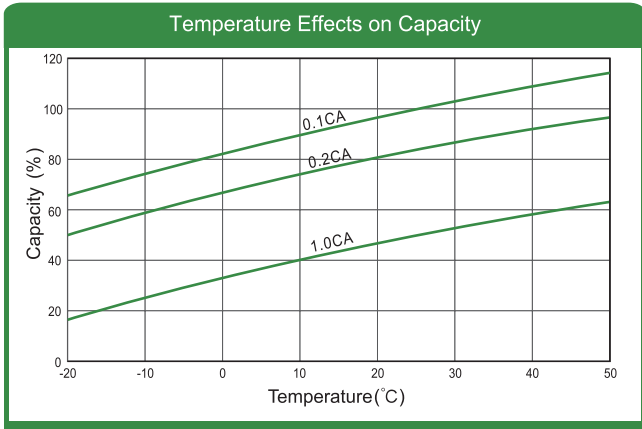
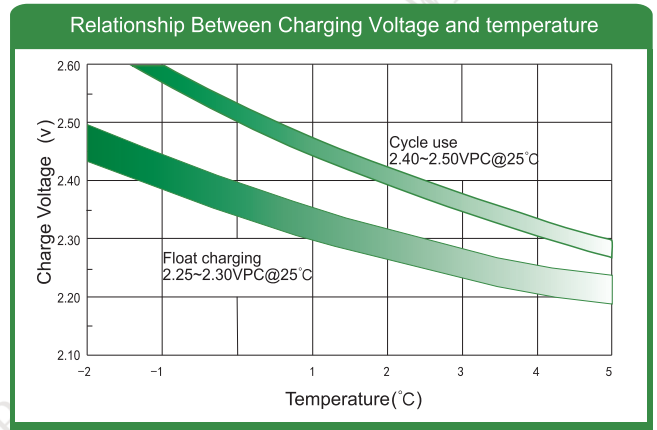
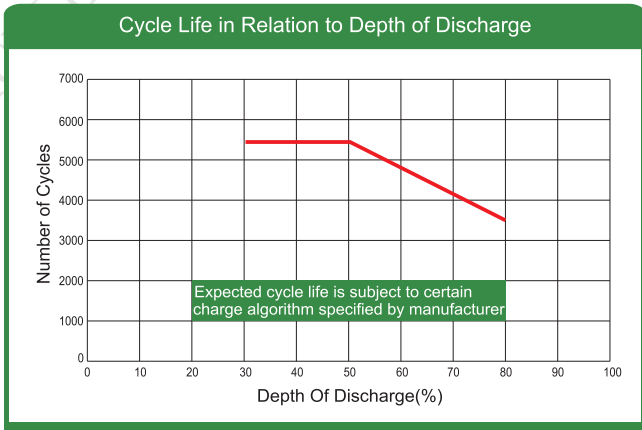
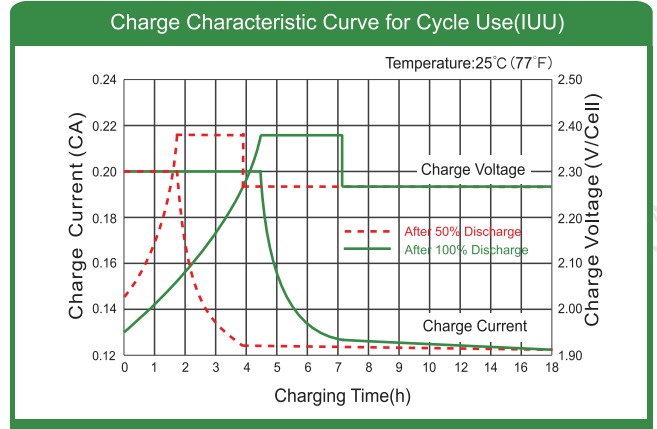
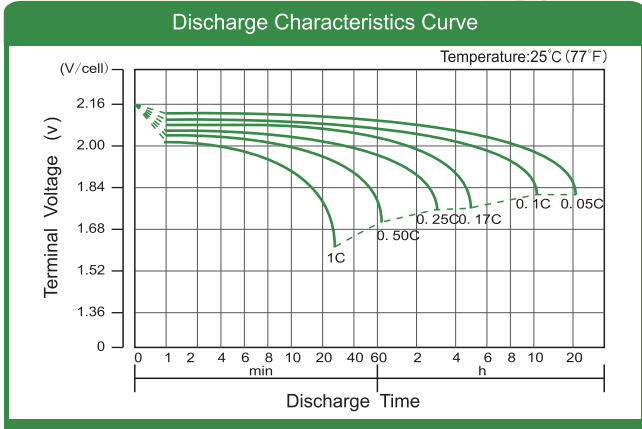
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	1890	1410	885	403	284	/	/	/	/
1.70V	1710	1283	833	391	269	/	/	/	/
1.75V	1613	1215	780	386	262	153	/	/	/
1.80V	1515	1148	765	375	251	150	/	/	/
1.85V	1418	1043	734	367	245	142	69.8	39.0	16.5

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

E.V/Time	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	3683	2745	1770	803	563	/	/	/	/
1.70V	3338	2498	1658	780	535	/	/	/	/
1.75V	3143	2370	1560	765	521	305	/	/	/
1.80V	2955	2235	1523	746	500	299	/	/	/
1.85V	2768	2033	1463	730	488	283	139	77.3	33.2

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



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