

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

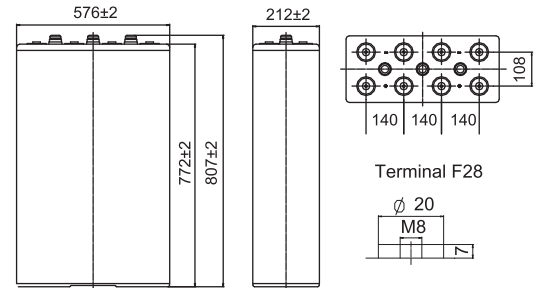
Specifications

Rated Voltage	2V	
Nominal Capacity	3000Ah	(C ₁₀ , 1.80V)
Approx Weight	227.0kg±3%(500.45lbs)	
Terminal	F28	
Rated Capacity(25°C)	3630 Ah	(100hr,36.3A,1.85V)
	3412.8 Ah	(48hr,71.1A,1.85V)
	3000 Ah	(10hr,300A,1.80V)
	2268 Ah	(3hr,756A,1.80V)
Max.Discharge/Charge Current	15000A(5s)/ 750A	
Max.Short Circuit Current	14964A	
Internal Resistance(25°C)	Approx 0.15mΩ	
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 750A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 750A. 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	576±2mm (22.7 inches)
Width	212±2mm (8.35 inches)
Container Height	772±2mm (30.4 inches)
Total Height	807±2mm (31.8 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

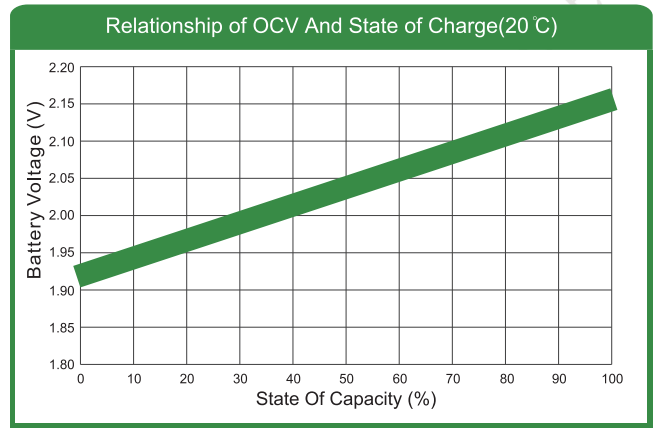
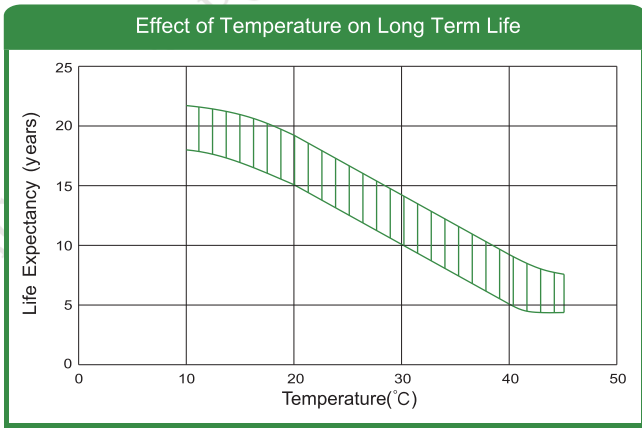
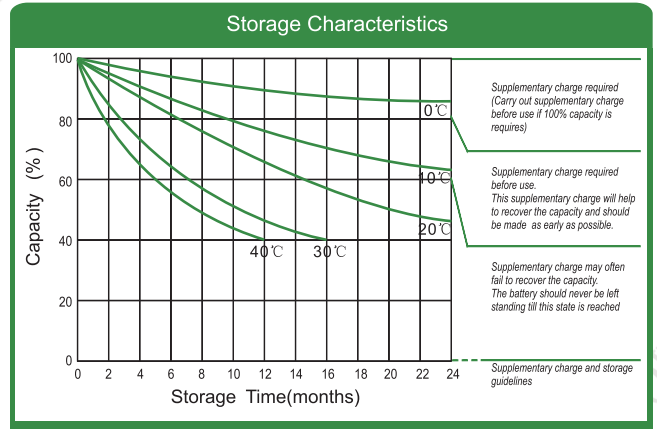
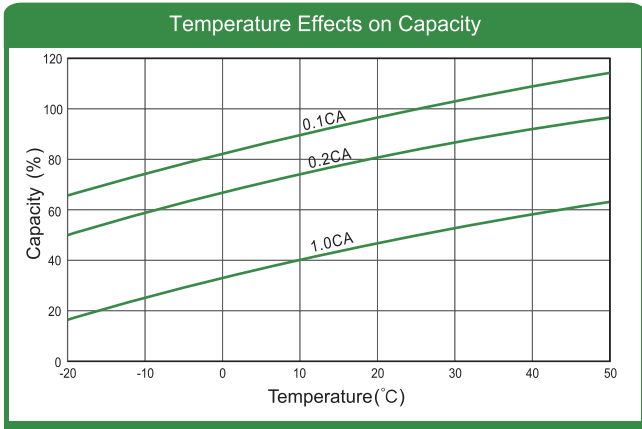
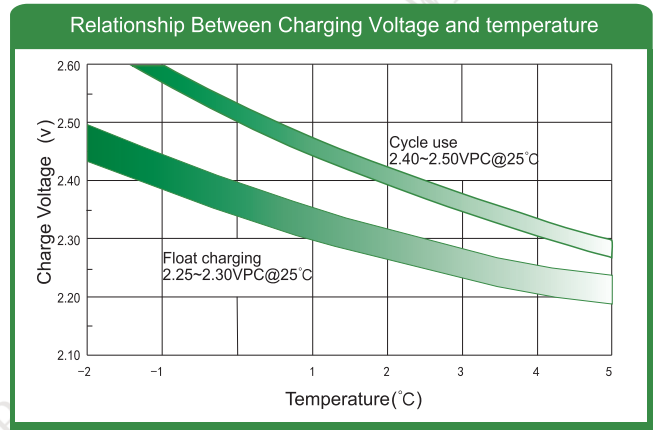
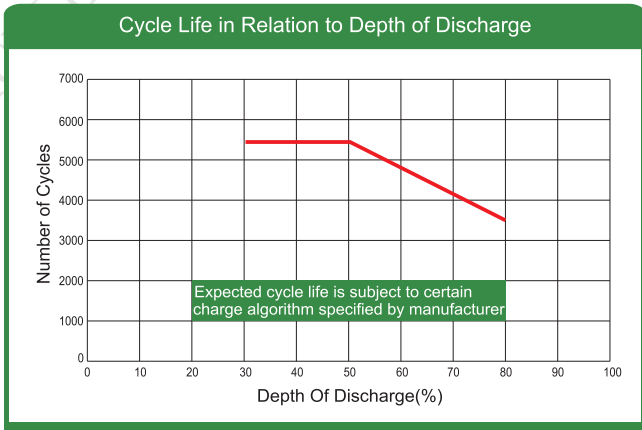
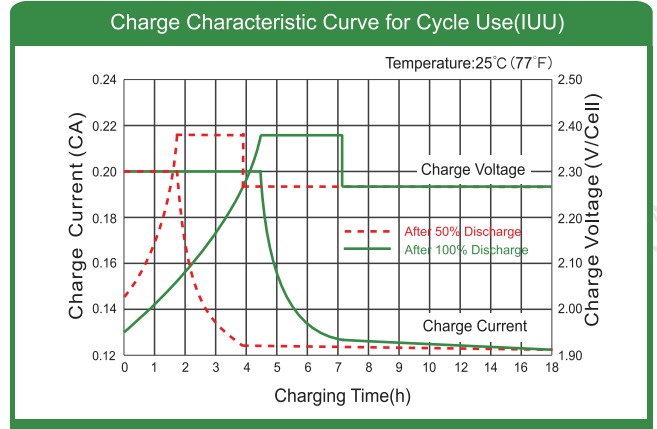
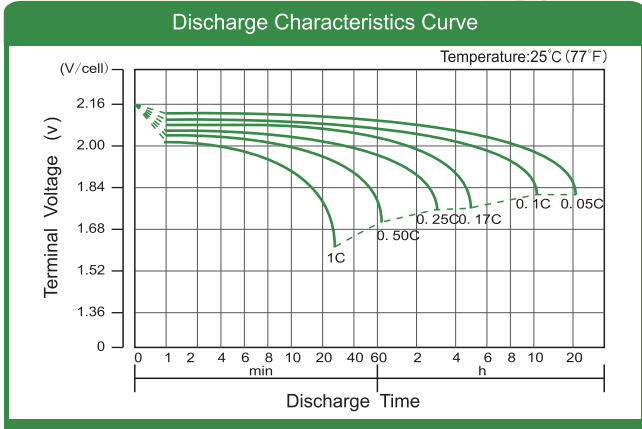
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	30min	1h	3h	5h	10h	20h	24h	48h	100h
1.65V	2499	1683	792	546	306	161	139	/	/
1.70V	2424	1641	786	540	303	161	138	73.5	/
1.75V	2364	1608	780	537	303	160	138	73.2	/
1.80V	2277	1560	756	522	300	159	137	72.6	/
1.85V	2163	1482	717	495	285	151	131	71.1	36.3

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

E.V/Time	30min	1h	3h	5h	10h	20h	24h	48h	100h
1.65V	4674	3201	1551	1074	606	324	280	/	/
1.70V	4530	3120	1539	1065	606	321	278	149	/
1.75V	4419	3057	1530	1059	600	321	277	148	/
1.80V	4257	2964	1482	1026	597	318	276	147	/
1.85V	4044	2817	1407	975	567	302	263	144	73.2

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



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