

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

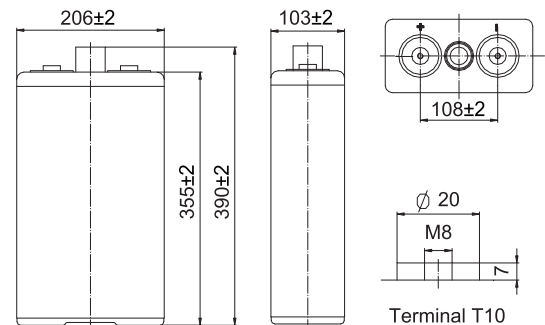
Specifications

Rated Voltage	2V	
Nominal Capacity	200Ah	(C ₁₀ , 1.80V)
Approx Weight	18.0kg±3%(39.68lbs)	
Terminal	F28	
Rated Capacity(25°C)	244.8 Ah	(120hr,2.04A,1.85V)
	242 Ah	(100hr,2.42A,1.85V)
	200 Ah	(10hr,20A,1.80V)
	151.2 Ah	(3hr,50.4A,1.80V)
Max.Discharge/Charge Current	1000A(5s) / 50A	
Max.Short Circuit Current	2195A	
Internal Resistance(25 °C)	Approx 1.1mΩ	
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 50A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 50A. 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	206±2mm (8.11 inches)
Width	103±2mm (4.06 inches)
Container Height	355±2mm (14.0 inches)
Total Height	390±2mm (15.4 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-SiO ₂	Fumed Silicon

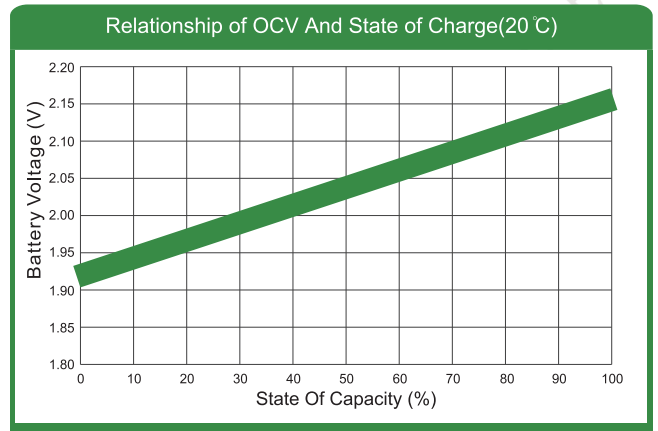
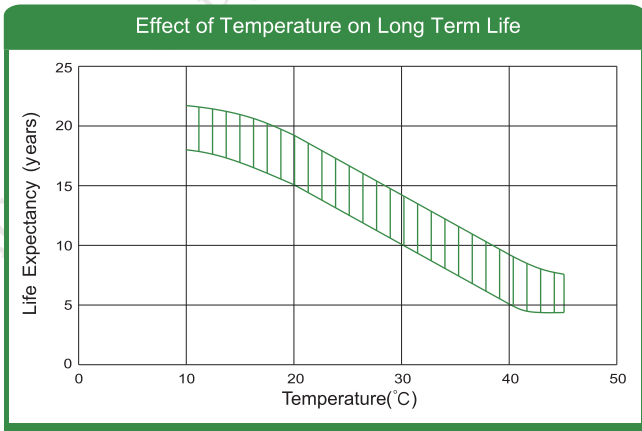
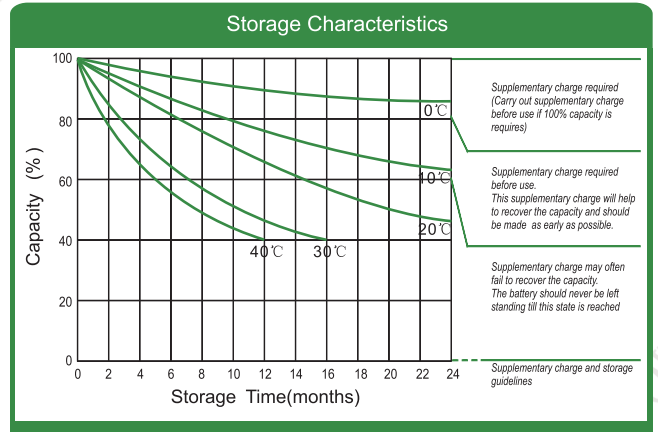
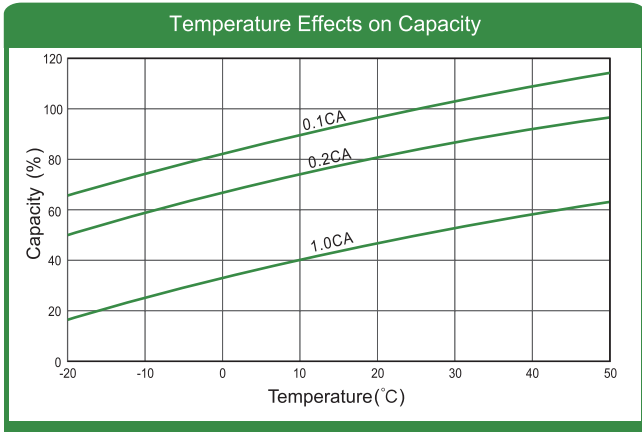
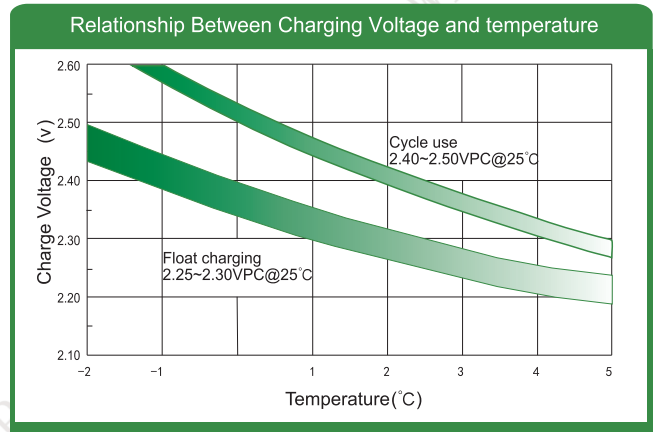
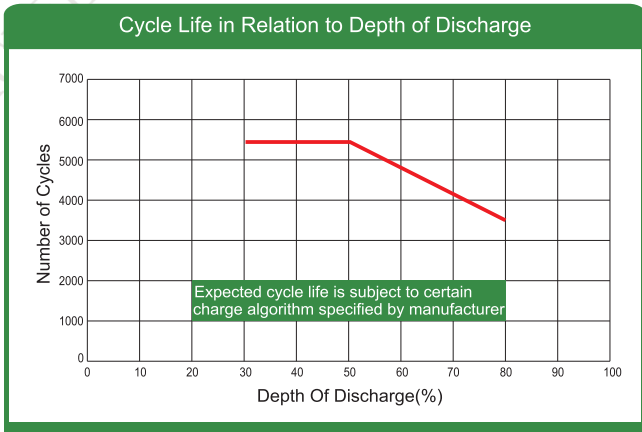
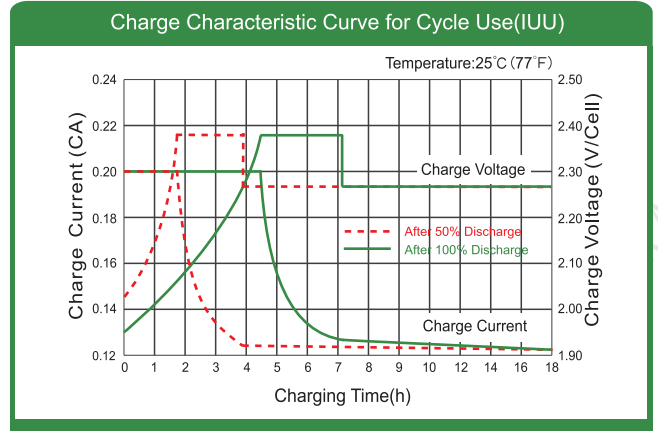
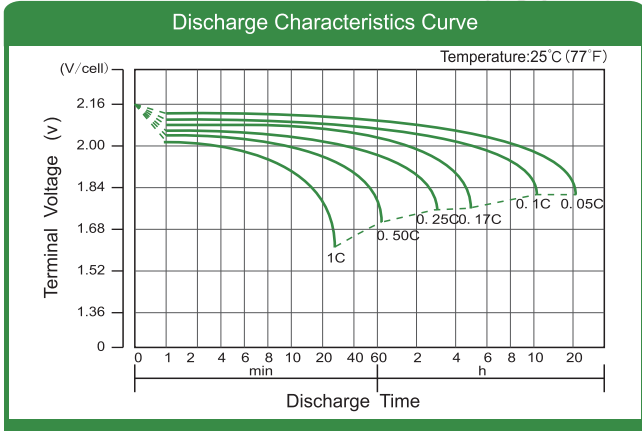
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	30min	1h	3h	5h	10h	20h	48h	100h	120h
1.65V	167	112	52.8	36.4	20.4	10.8	/	/	/
1.70V	162	109	52.4	36.0	20.2	10.7	4.90	/	/
1.75V	158	107	52.0	35.8	20.2	10.7	4.88	/	/
1.80V	152	104	50.4	34.8	20.0	10.6	4.84	/	/
1.85V	144	98.8	47.8	33.0	19.0	10.1	4.74	2.42	2.04

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

E.V/Time	30min	1h	3h	5h	10h	20h	48h	100h	120h
1.65V	312	213	103	71.6	40.4	21.6	/	/	/
1.70V	302	208	103	71.0	40.4	21.4	9.90	/	/
1.75V	295	204	102	70.6	40.0	21.4	9.84	/	/
1.80V	284	198	98.8	68.4	39.8	21.2	9.78	/	/
1.85V	270	188	93.8	65.0	37.8	20.1	9.58	4.88	4.16

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



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