

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

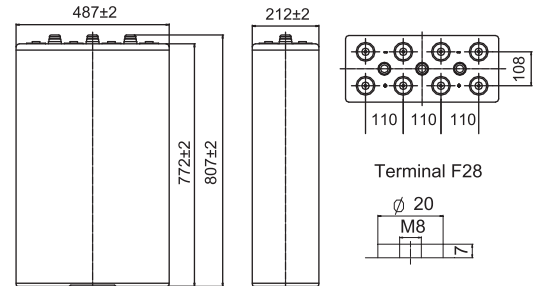
Specifications

Rated Voltage	2V	
Nominal Capacity	2500Ah	(C ₁₀ , 1.80V)
Approx Weight	185.0kg±3%(407.86lbs)	
Terminal	F28	
Rated Capacity(25°C)	3030 Ah	(100hr,30.3A,1.85V)
	2846.4 Ah	(48hr,59.3A,1.85V)
	2500 Ah	(10hr,250A,1.80V)
	1890 Ah	(3hr,630A,1.80V)
Max.Discharge/Charge Current	12500A(5s) / 625A	
Max.Short Circuit Current	12606A	
Internal Resistance(25°C)	Approx 0.20mΩ	
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 625A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 625A. 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	487±2mm (19.2 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

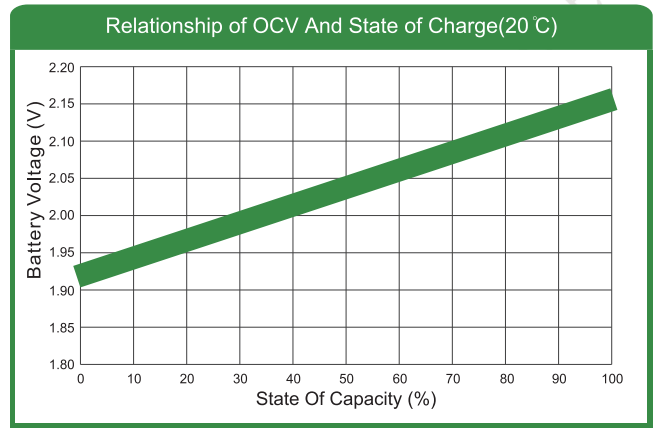
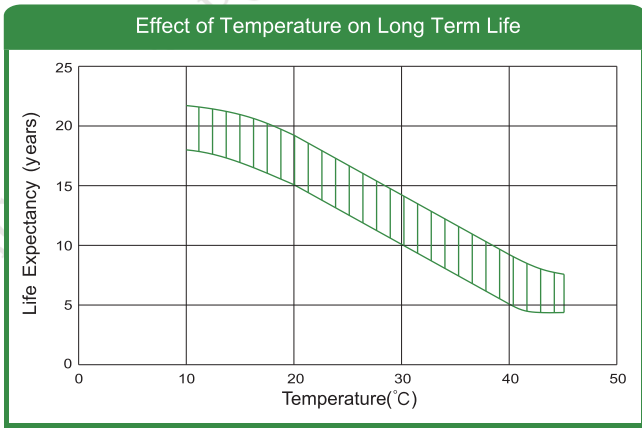
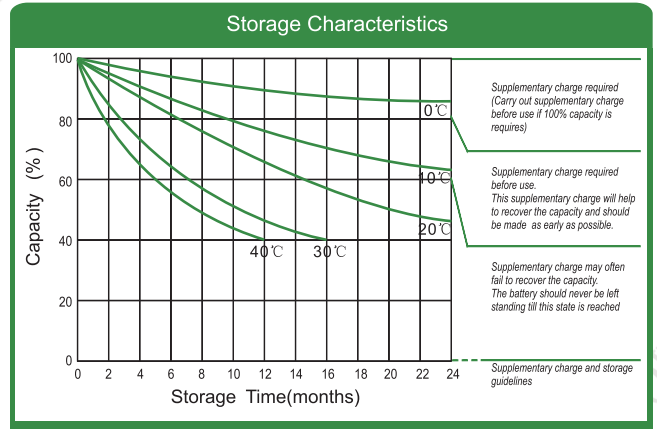
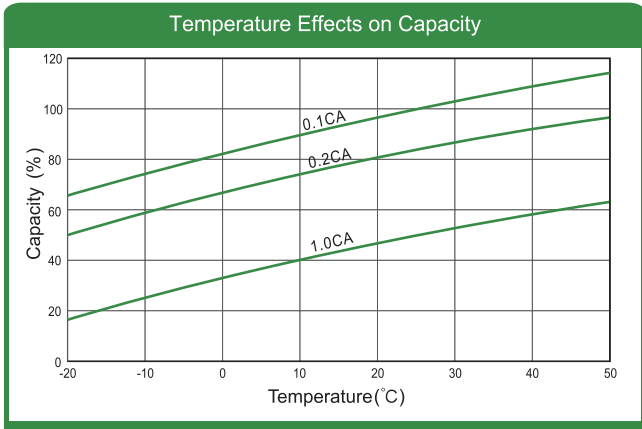
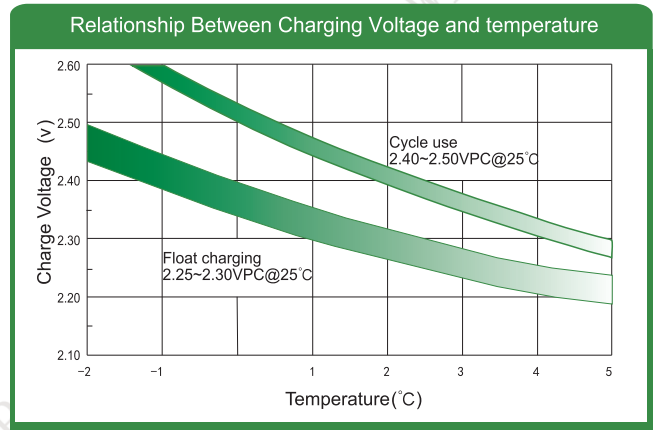
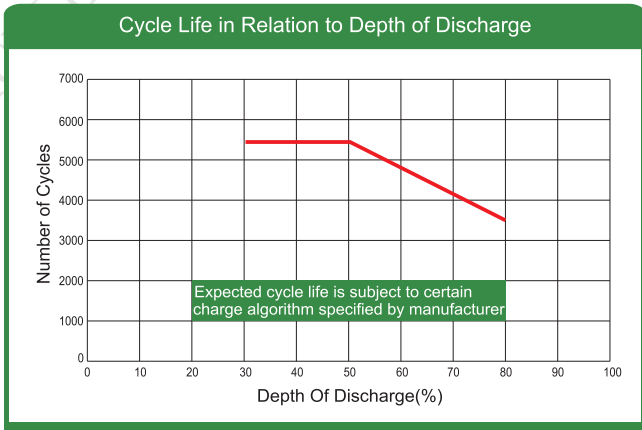
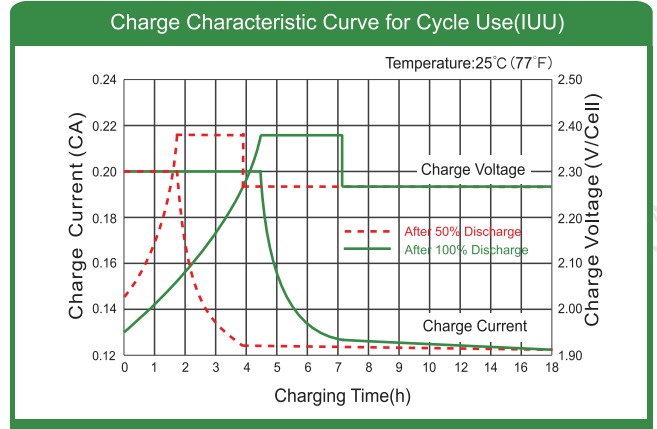
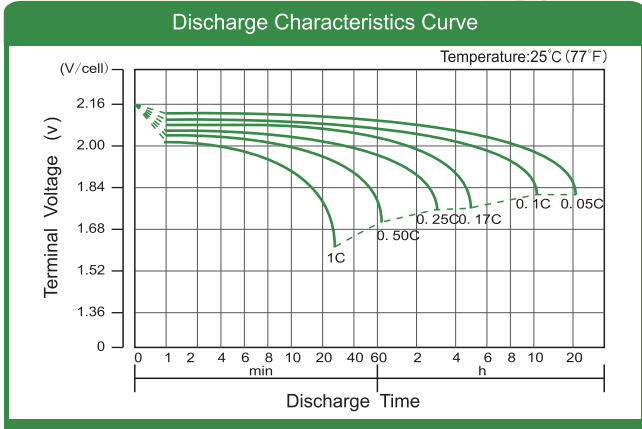
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	30min	1h	3h	5h	10h	20h	24h	48h	100h
1.65V	2083	1403	660	455	255	135	116	/	/
1.70V	2020	1368	655	450	253	134	115	61.3	/
1.75V	1970	1340	650	448	253	134	115	61.0	/
1.80V	1898	1300	630	435	250	133	115	60.5	/
1.85V	1803	1235	598	413	238	126	109	59.3	30.3

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

E.V/Time	30min	1h	3h	5h	10h	20h	24h	48h	100h
1.65V	3895	2668	1293	895	505	270	233	/	/
1.70V	3775	2600	1283	888	505	268	232	124	/
1.75V	3683	2548	1275	883	500	268	231	123	/
1.80V	3548	2470	1235	855	498	265	230	122	/
1.85V	3370	2348	1173	813	473	252	219	120	60.1

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



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