

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

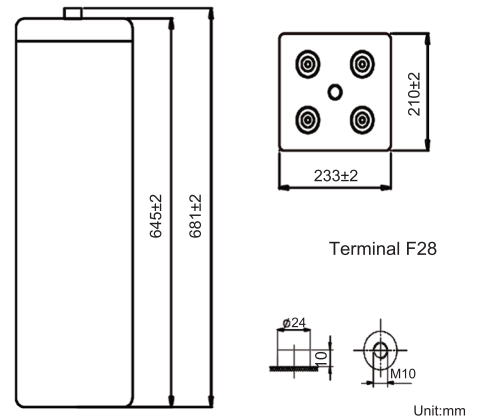
Specifications

Rated Voltage	2V	
Nominal Capacity	1000Ah	(C ₁₀ , 1.80V)
Approx Weight	74.5kg±3%(164.24lbs)	
Terminal	F28	
Rated Capacity(25°C)	1320 Ah	(120hr,11A,1.85V)
	1248 Ah	(48hr,26A,1.85V)
	1000 Ah	(10hr,100A,1.80V)
	750 Ah	(3hr,250A,1.80V)
Max.Discharge/Charge Current	5000A(5s)/250A	
Max.Short Circuit Current	6460A	
Internal Resistance(25 °C)	Approx 0.4mΩ	
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 250A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 250A. 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	233±2mm (9.17 inches)
Width	210±2mm (8.26 inches)
Container Height	645±2mm (25.4 inches)
Total Height	681±2mm (26.8 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

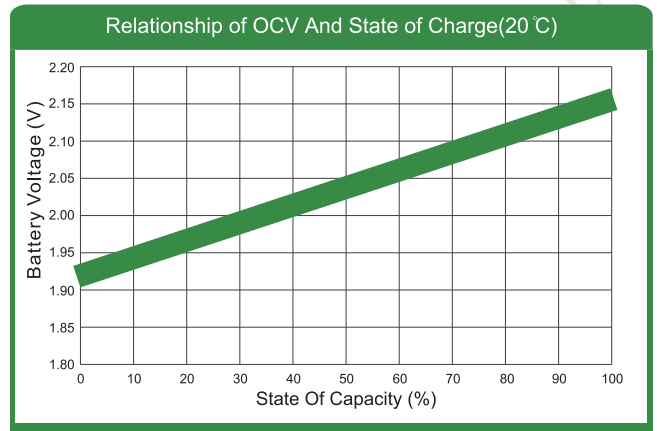
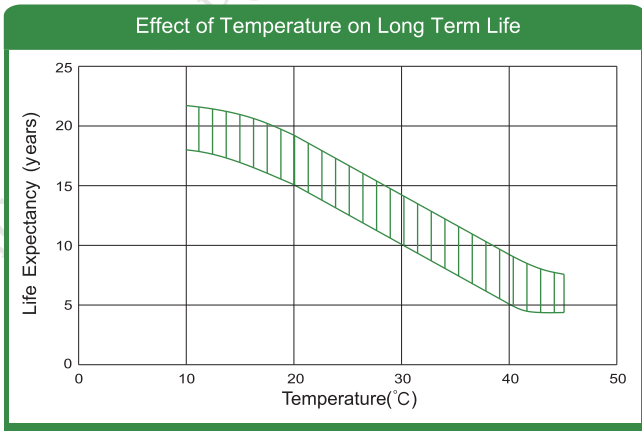
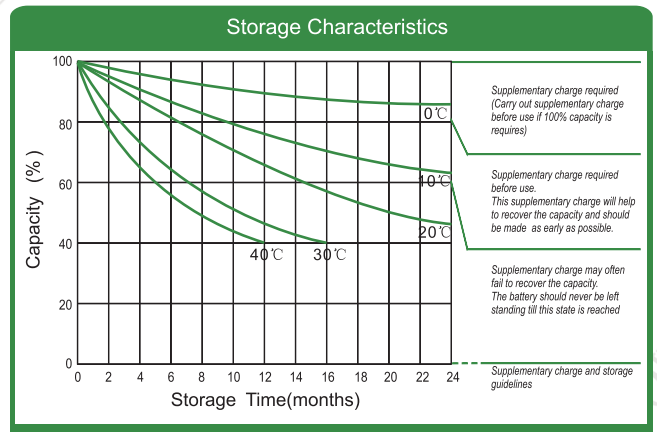
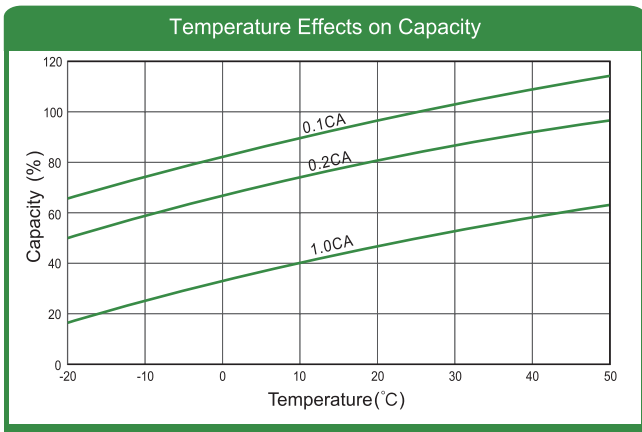
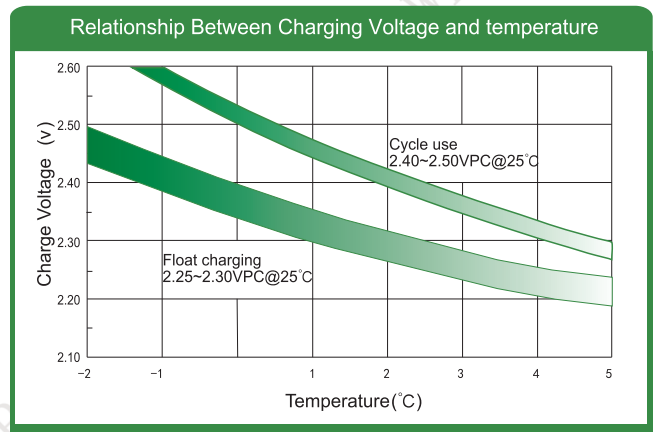
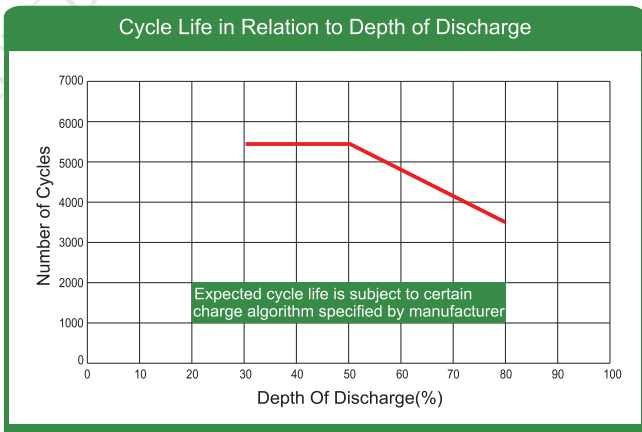
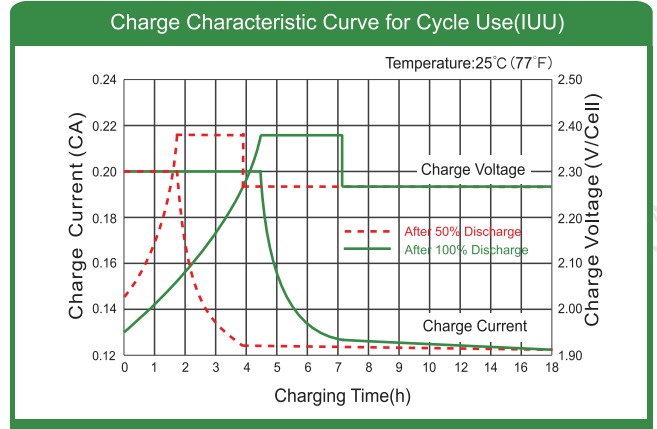
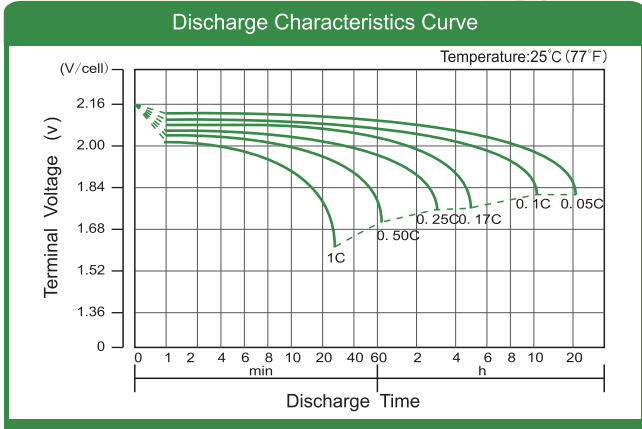
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	1260	940	590	269	189	/	/	/	/
1.70V	1140	855	555	261	179	/	/	/	/
1.75V	1075	810	520	257	175	102	/	/	/
1.80V	1010	756	510	250	168	100	/	/	/
1.85V	945	695	489	245	164	94.5	46.5	26.0	11.0

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

E.V/Time	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	2455	1830	1180	535	376	/	/	/	/
1.70V	2225	1665	1105	520	357	/	/	/	/
1.75V	2095	1580	1040	510	347	203	/	/	/
1.80V	1970	1490	1015	497	334	199	/	/	/
1.85V	1845	1355	975	486	325	189	92.5	51.5	22.2

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



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