

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

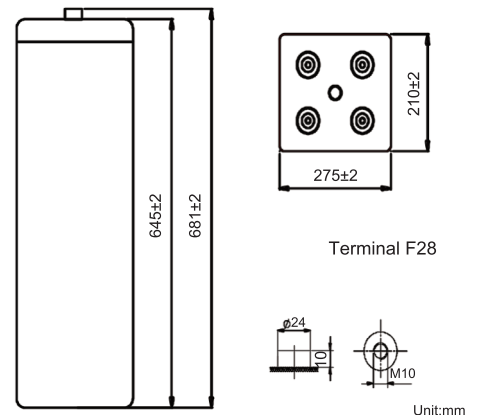
Specifications

Rated Voltage	2V	
Nominal Capacity	1200Ah	(C ₁₀ , 1.80V)
Approx Weight	92.0kg±3%(202.83lbs)	
Terminal	F28	
Rated Capacity(25°C)	1584 Ah	(120hr,13.2A,1.85V)
	1497 Ah	(48hr,31.2A,1.85V)
	1200 Ah	(10hr,120A,1.80V)
	900 Ah	(3hr,300A,1.80V)
Max.Discharge/Charge Current	6000A(5s)/300A	
Max.Short Circuit Current	7675A	
Internal Resistance(25°C)	Approx 0.35mΩ	
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	Cycle Use	Initial Charging Current less than 300A. Voltage 2.4V~2.45V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Standby Use	Initial Charging Current less than 300A. 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	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

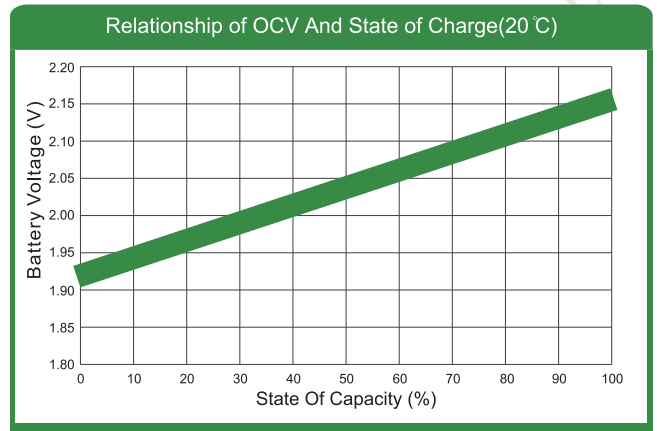
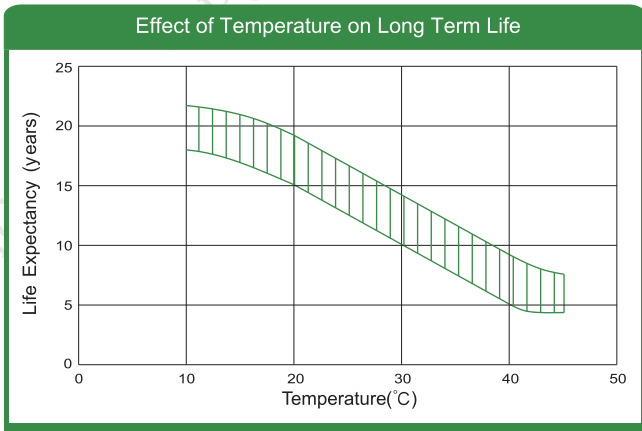
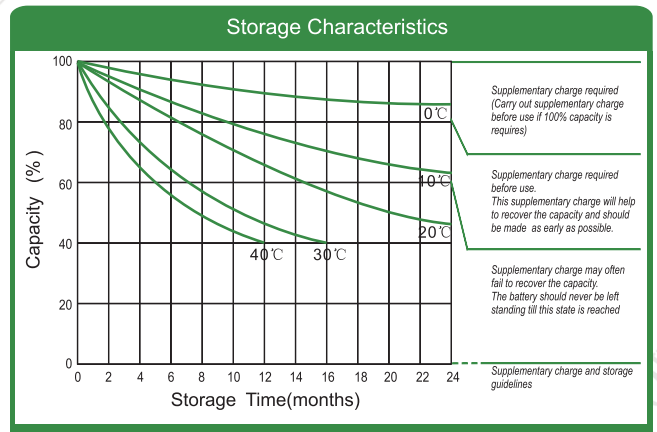
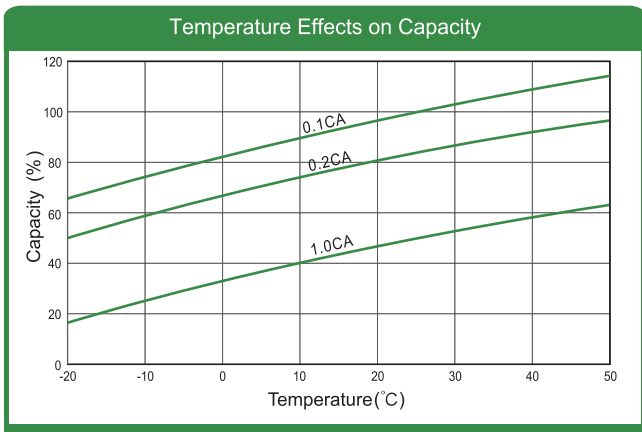
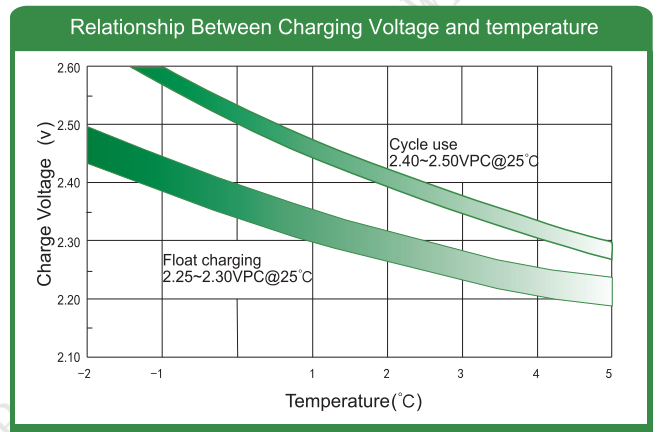
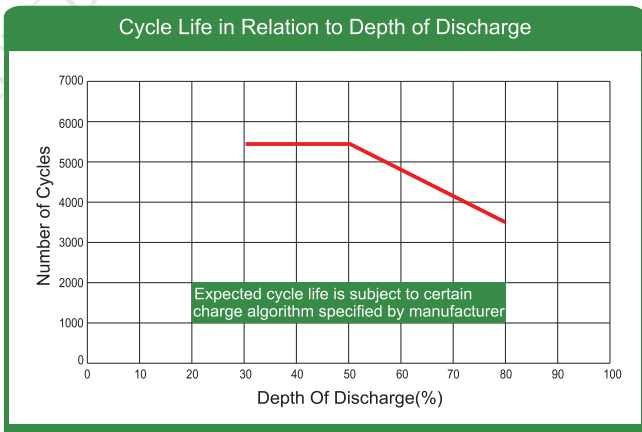
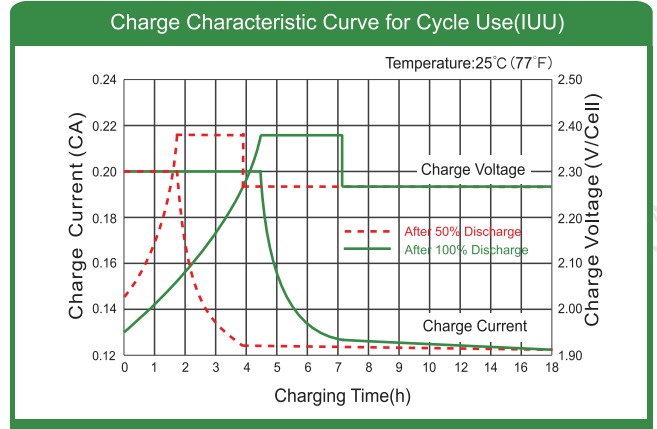
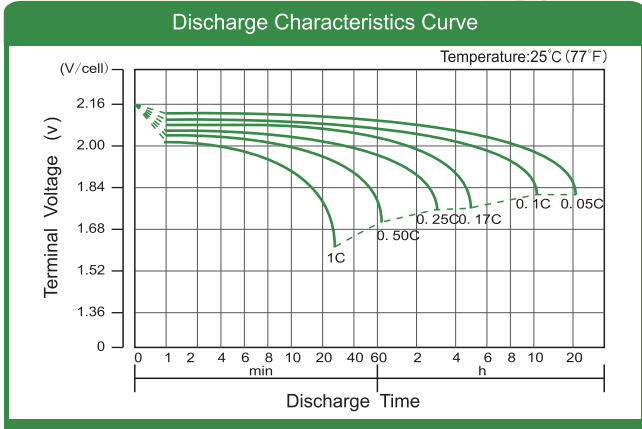
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	1512	1128	708	322	227	/	/	/	/
1.70V	1368	1026	666	313	215	/	/	/	/
1.75V	1290	972	624	308	209	122	/	/	/
1.80V	1212	918	616	300	201	120	/	/	/
1.85V	1134	834	587	293	196	113	55.8	31.2	13.2

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

E.V/Time	15min	30min	1h	3h	5h	10h	24h	48h	120h
1.65V	2946	2196	1416	642	451	/	/	/	/
1.70V	2670	1998	1326	624	428	/	/	/	/
1.75V	2514	1896	1248	612	416	244	/	/	/
1.80V	2364	1788	1218	597	400	239	/	/	/
1.85V	2214	1626	1170	584	390	226	111	61.8	26.6

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



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