

HTG Series Battery

SPACEFLIGHT HTG Series Battery is hybrid GEL battery designed with deep cycle technology to give extra-durable cycle performance. HTG series battery with 20 years floating design life at 25°C.

Applications

- Solar and wind power systems
- Communication systems
- Uninterruptible power supplies
- Golf carts and buggies
- Alarm and security system
- Electric toy and wheelchairs, etc

General Features

- 20 years designed floating life(25 °C)
- Non-spillable construction
- Sealed and maintenance-free
- Excellent recovery from deep discharge
- High density active materials plates
- 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

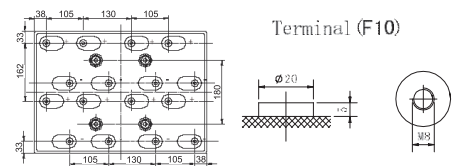
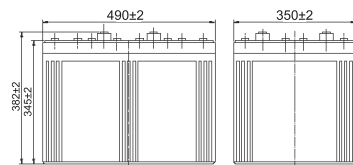
Specifications

Rated Voltage	2V	
Nominal Capacity	2500Ah	(C ₁₀ ,1.8V)
Approx Weight	140kg±3%(308.6lbs)	
Terminal	F10	
Rated Capacity(25°C)	2500 Ah	(10hr,250A,1.80V)
	2250 Ah	(5hr,450A,1.75V)
	1950 Ah	(3hr,650A,1.70V)
	1520 Ah	(1hr,1520A,1.60V)
Max.Discharge Current	12500A(5s)	
Max.Charge Current	625A	
Internal Resistance(25°C)	Approx 0.5mΩ	
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 625A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 625A. Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -20mV/°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	490±2mm (19.3 inches)
Width	350±2mm (13.8 inches)
Container Height	345±2mm (13.6 inches)
Total Height	382±2mm (15.04 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	AGM	SiO ₂ +H ₂ SO ₄

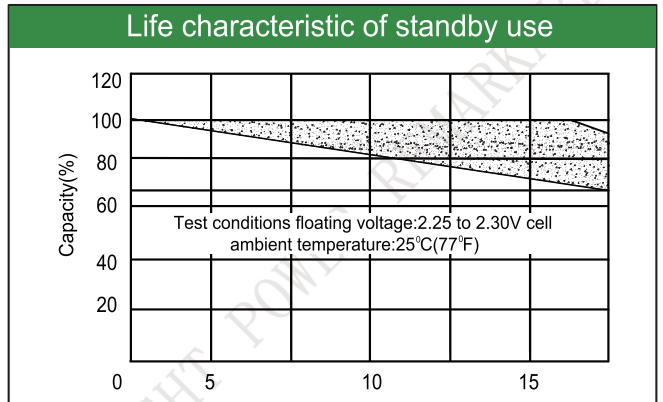
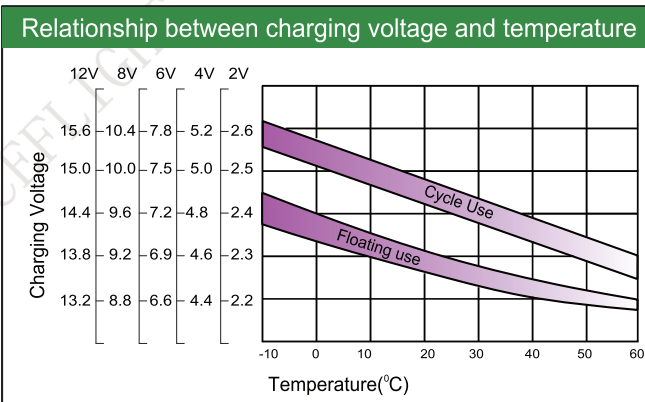
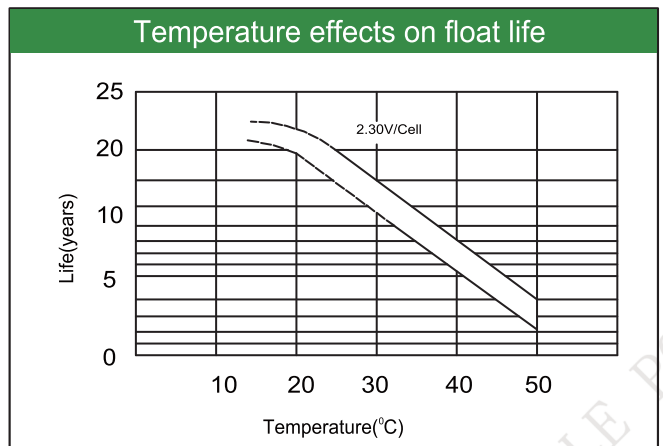
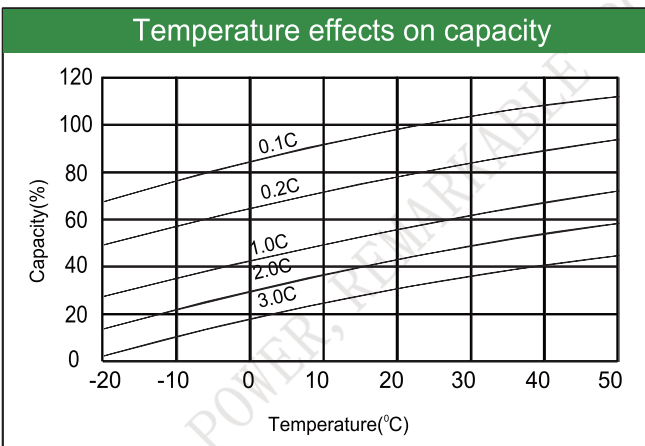
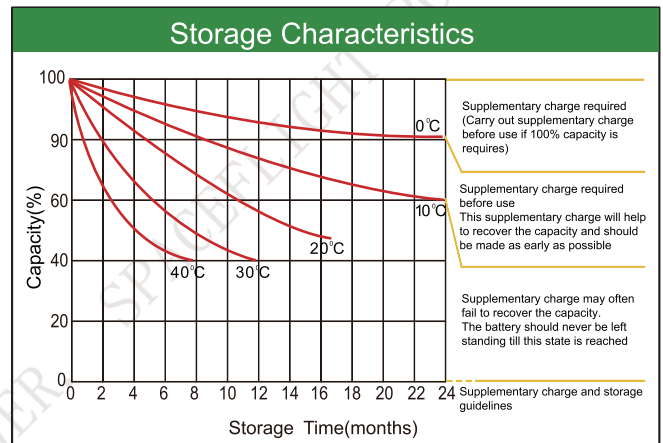
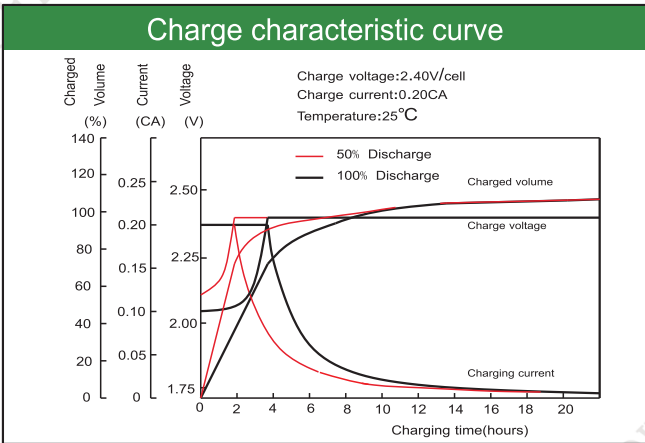
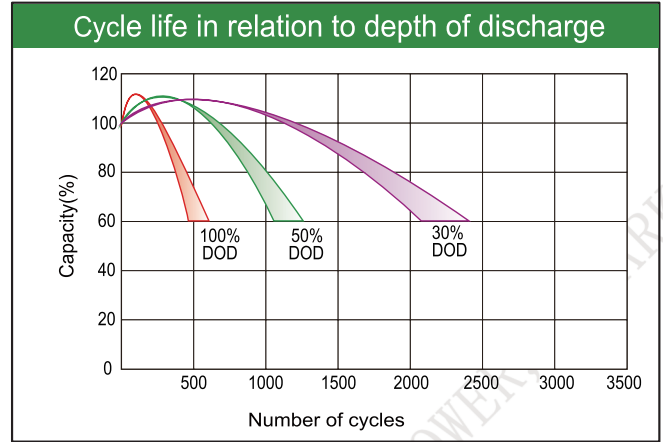
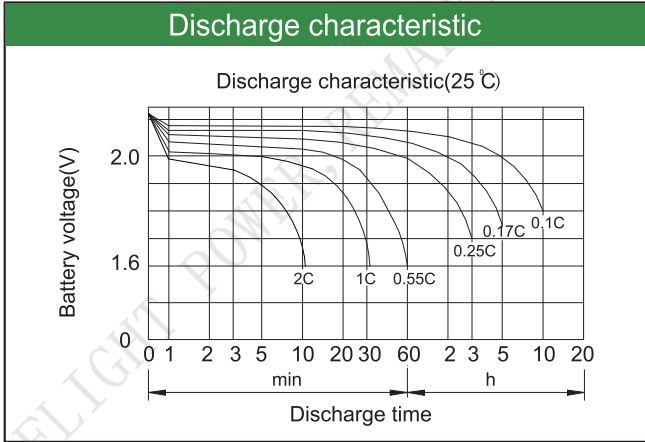
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	4279	3783	2482	1799	1520	675	472	262
1.65V	/	4056	3600	2374	1725	1493	665	466	260
1.70V	/	3827	3411	2257	1649	1438	650	458	257
1.75V	/	3586	3219	2140	1569	1395	538	450	254
1.80V	/	3348	3025	2019	1458	1329	623	440	250

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	6953	6256	4068	2931	2540	1696	1121	792
1.65V	/	6831	6047	3957	2881	2499	1679	1113	784
1.70V	/	6611	5881	3900	2852	2484	1617	1099	771
1.75V	/	6361	5729	3787	2776	2464	1548	1090	769
1.80V	/	6120	5566	3715	2671	2444	1474	1084	752

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



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