

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

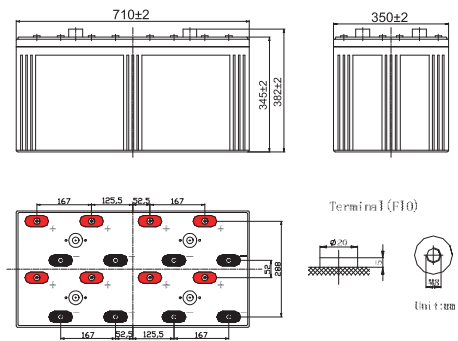
Specifications

Rated Voltage	2V	
Nominal Capacity	3000Ah	(C ₁₀ ,1.8V)
Approx Weight	185kg±3%(407.85lbs)	
Terminal	F10	
Rated Capacity(25°C)	3000 Ah	(10hr,300A,1.80V)
	2675 Ah	(5hr,535A,1.75V)
	2310 Ah	(3hr,770A,1.70V)
	1850 Ah	(1hr,1850A,1.60V)
Max.Discharge Current	15000A(5s)	
Max.Charge Current	750A	
Internal Resistance(25°C)	Approx 0.45mΩ	
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 750A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 750A. 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	710±2mm (27.95 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

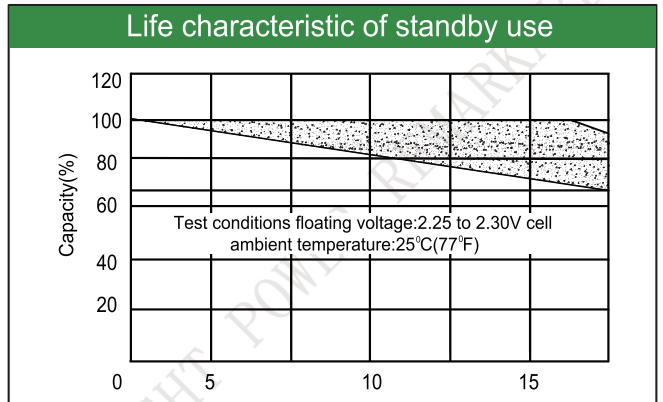
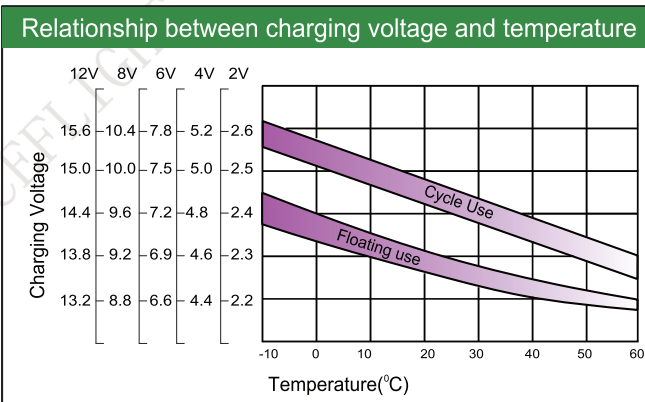
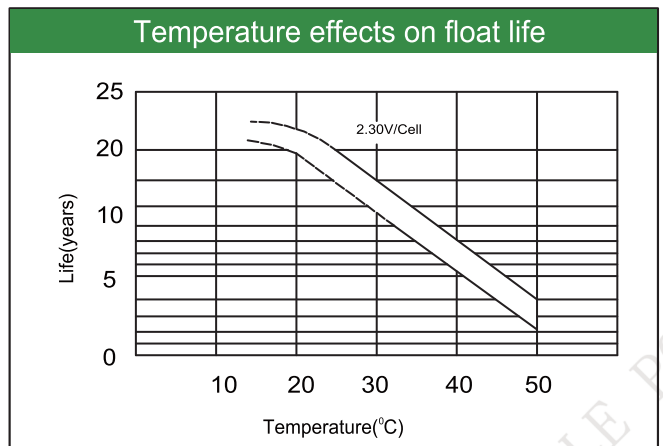
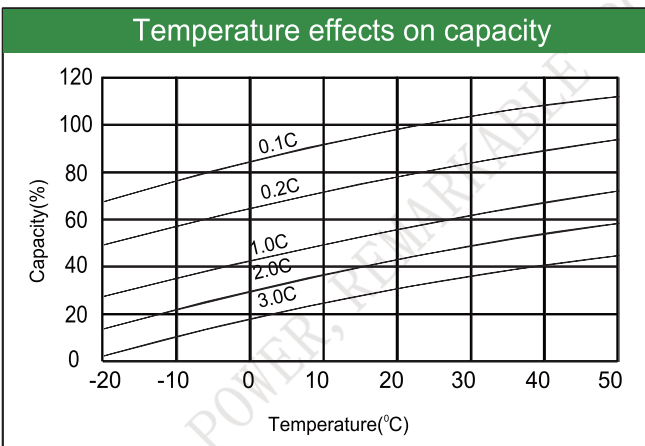
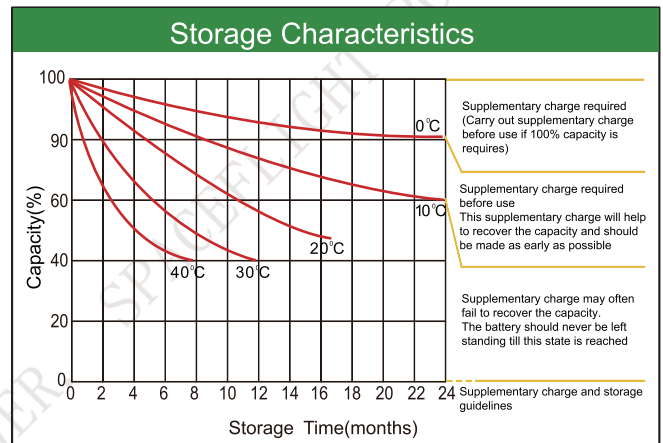
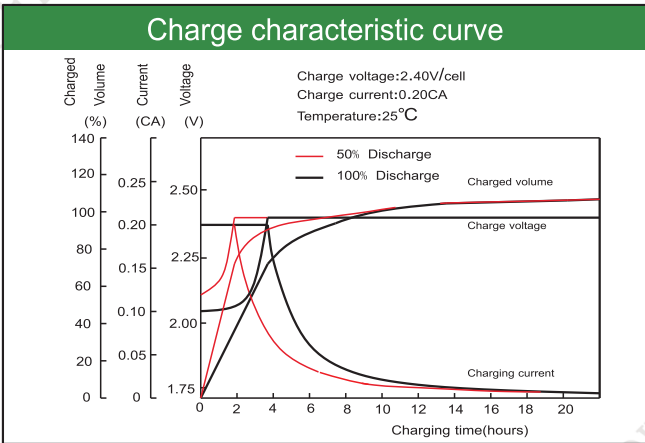
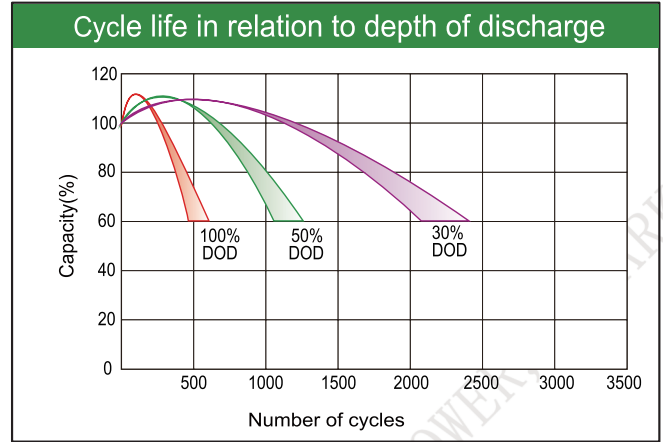
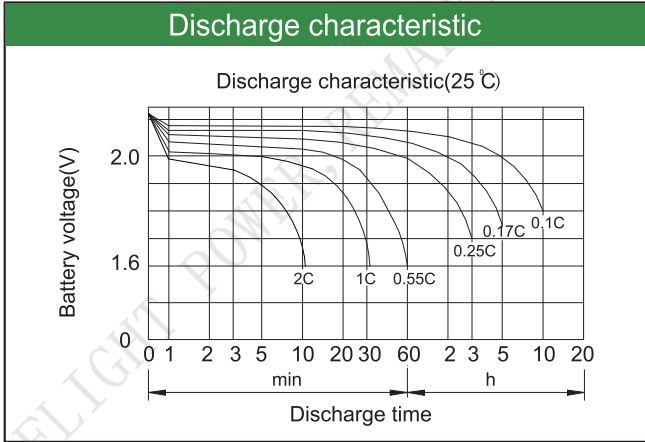
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	5134	4539	2979	2158	1850	825	580	319
1.65V	/	4867	4320	2848	2070	1791	800	562	315
1.70V	/	4593	4093	2709	1978	1725	770	550	310
1.75V	/	4303	3862	2568	1882	1674	741	535	305
1.80V	/	4017	3631	2423	1749	1594	707	525	300

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	8343	7507	4881	3518	3048	2036	1346	951
1.65V	/	8197	7257	4749	3457	2998	2014	1335	941
1.70V	/	7934	7057	4680	3423	2981	1941	1319	926
1.75V	/	7633	6875	4545	3331	2957	1857	1308	922
1.80V	/	7344	6679	4458	3206	2933	1768	1301	903

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



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