

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

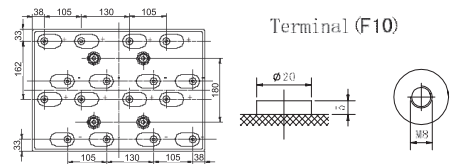
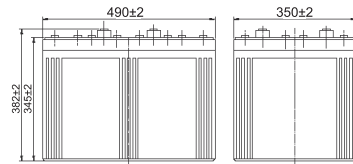
- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	2V	
Nominal Capacity	2000Ah	(C ₁₀ , 1.8V)
Approx Weight	123kg±3%(271.17lbs)	
Terminal	F10	
Rated Capacity(25°C)	2000 Ah	(10hr,200A,1.80V)
	1790 Ah	(5hr,358A,1.75V)
	1560 Ah	(3hr,520A,1.70V)
	1230 Ah	(1hr,1230A,1.60V)
Max.Discharge Current	10000A(5s)	
Max.Charge Current	500A	
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 @25°C(77°F)	Cycle Use	Initial Charging Current less than 500A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 500A. 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

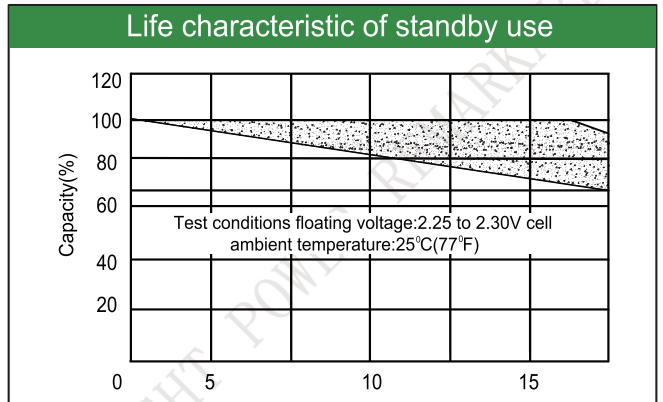
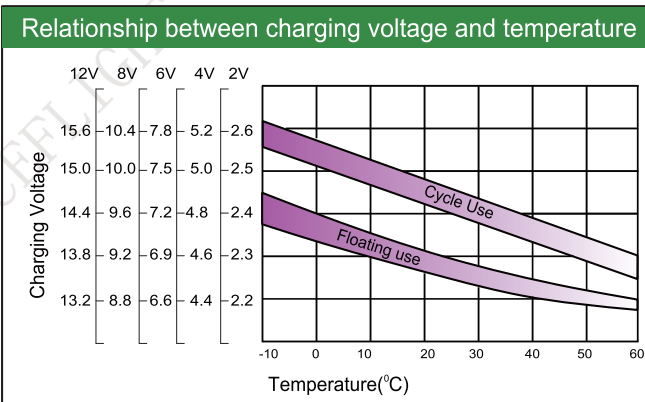
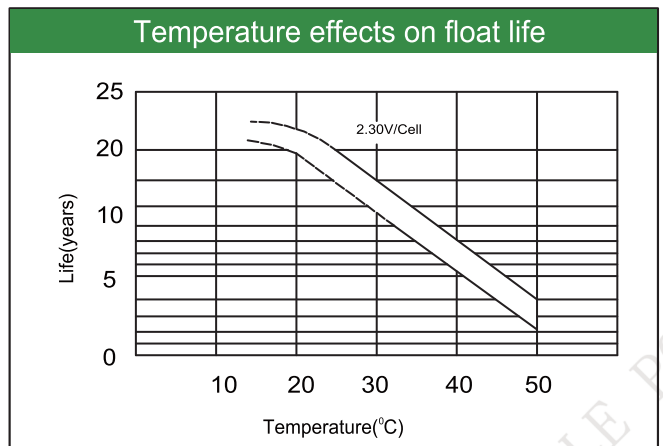
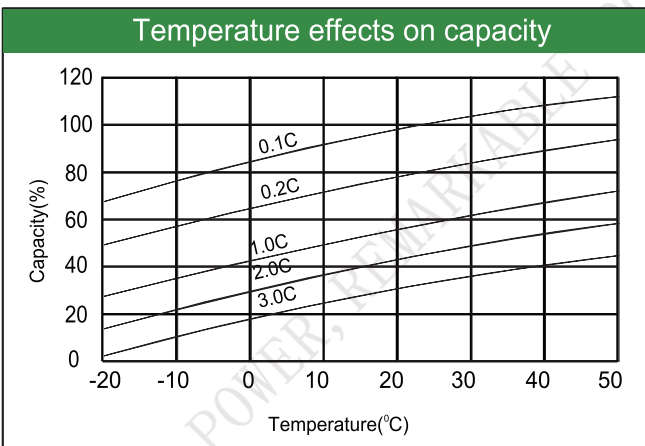
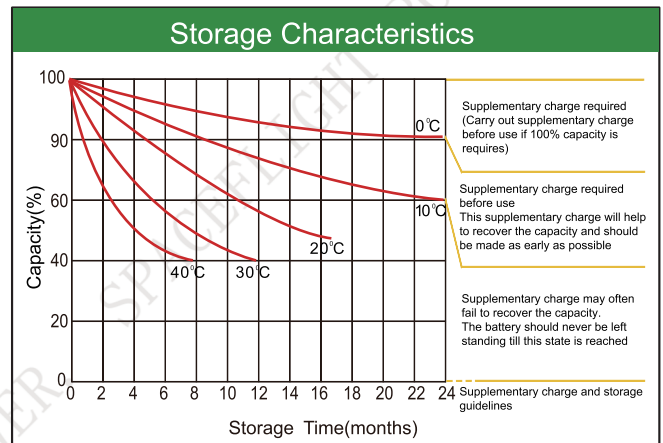
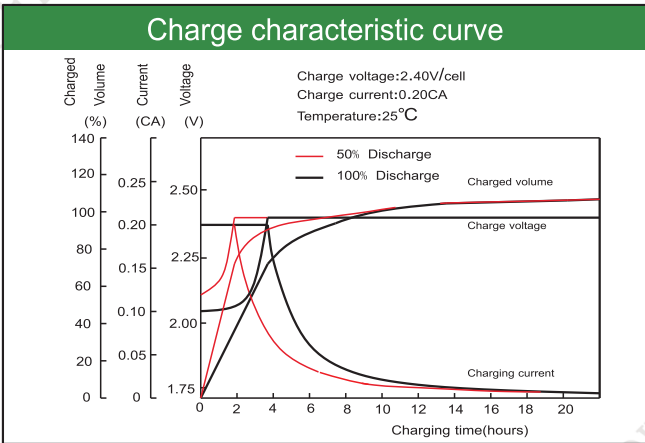
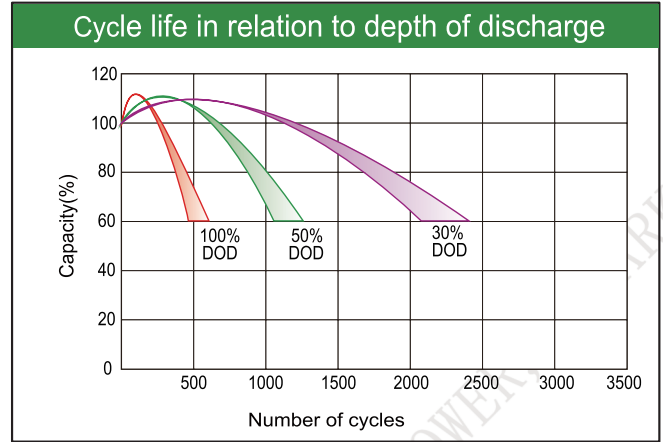
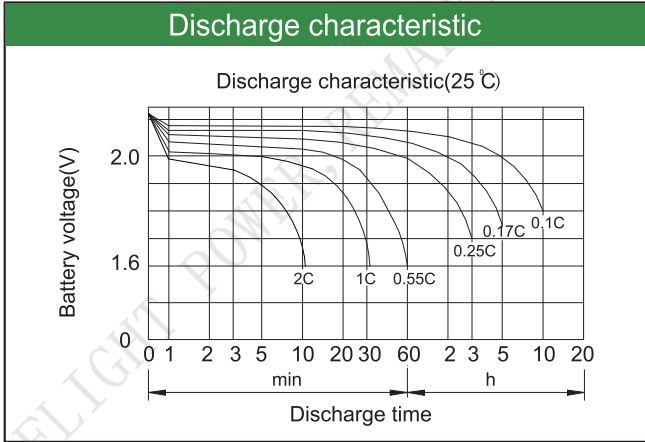
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	3423	3026	1986	1439	1230	545	384	214
1.65V	/	3245	2880	1899	1380	1194	535	378	211
1.70V	/	3062	2729	1806	1319	1150	520	370	208
1.75V	/	2869	2575	1712	1255	1116	500	358	204
1.80V	/	2678	2420	1615	1166	1063	480	345	200

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	5562	5005	3254	2345	2032	1357	897	634
1.65V	/	5465	4838	3166	2305	1999	1343	890	627
1.70V	/	5289	4704	3120	2282	1987	1294	879	617
1.75V	/	5089	4583	3030	2221	1971	1238	872	615
1.80V	/	4896	4453	2972	2137	1955	1179	867	602

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



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