

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 12 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

- 12 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

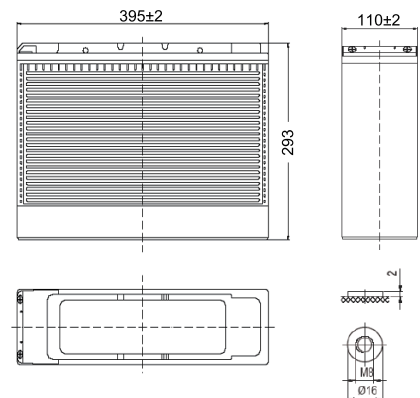
Specifications

Rated Voltage	12V	
Nominal Capacity	105Ah	(C ₁₀ , 10.8V)
Approx Weight	31.5kg±3%(69.45lbs)	
Terminal	F12	
Rated Capacity(25°C)	121.8 Ah	(20hr,6.09A,10.5V)
	105 Ah	(10hr,10.5A,10.8V)
	95 Ah	(5hr,19A,10.5V)
	71 Ah	(1hr,71A,9.6V)
Max.Discharge Current	1050A(5s)	
Max.Charge Current	26.25A	
Internal Resistance(25°C)	Approx 6mΩ	
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 26.25A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 26.25A. Voltage 13.5V~13.8V 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	395±2mm (15.6 inches)
Width	110±2mm (4.33 inches)
Container Height	286±2mm (11.3 inches)
Total Height	286±2mm (11.3 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

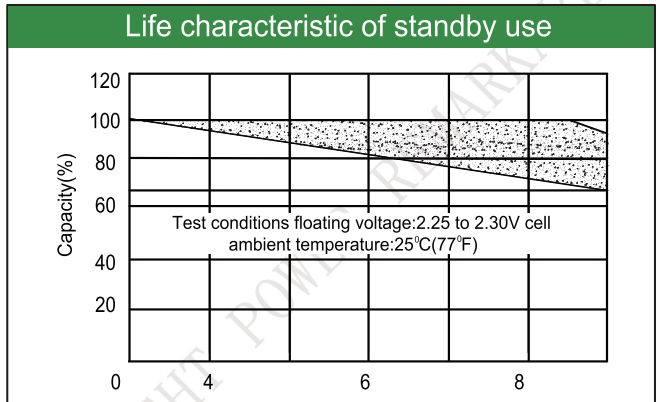
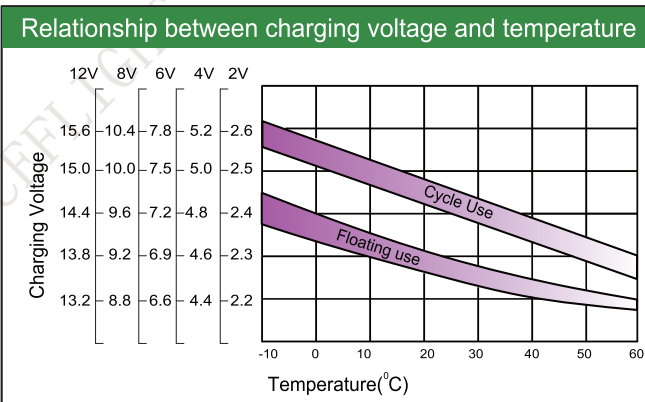
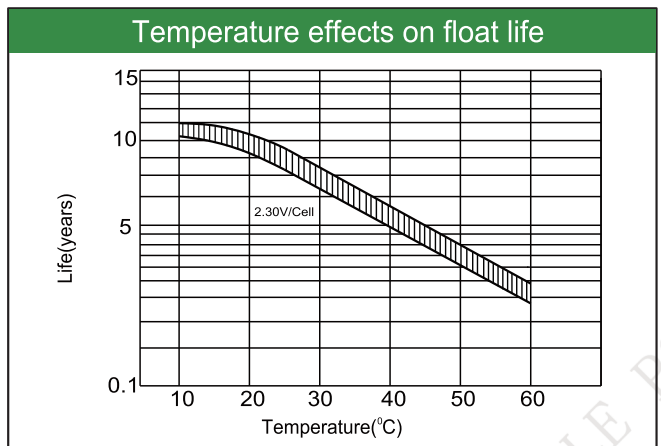
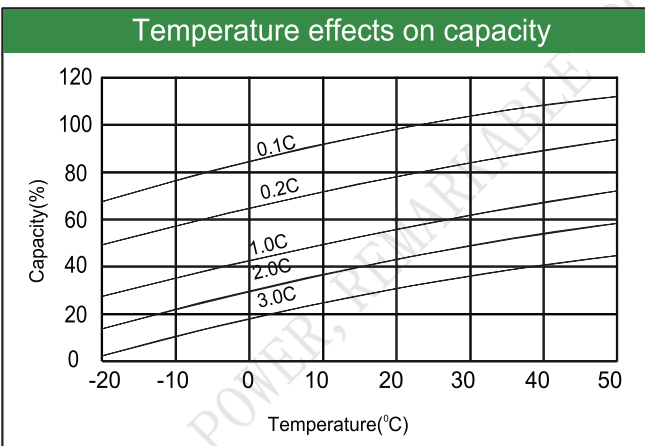
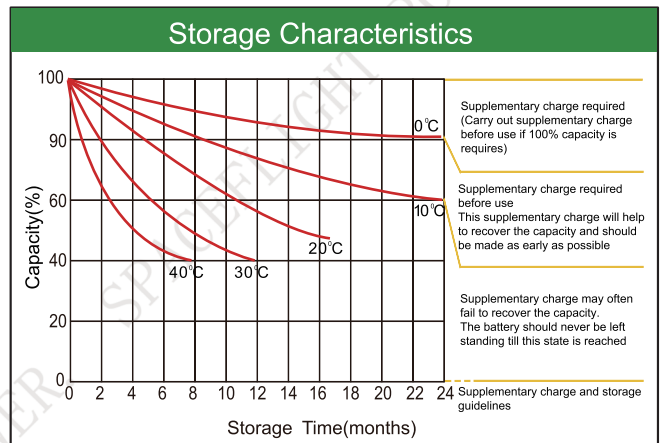
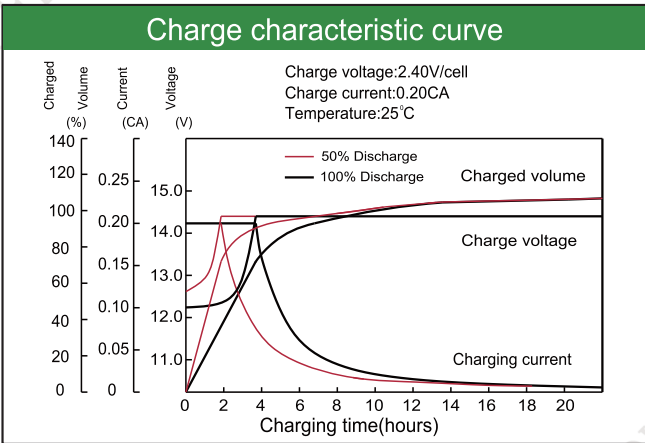
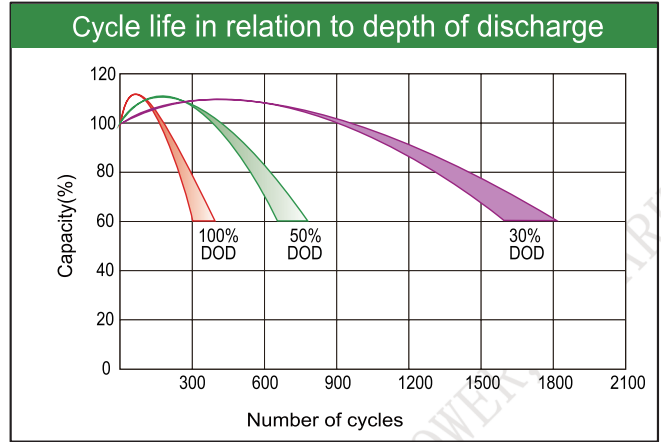
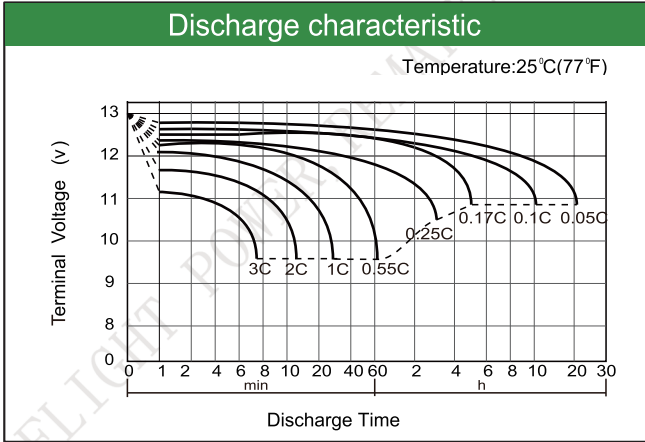
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	229	185	120	91	71	30.9	19.3	10.7	6.25
1.65V	212	174	116	88	69.5	30.5	19.2	10.7	6.20
1.70V	195	162	111	85.2	68	30.0	19.1	10.6	6.14
1.75V	178	151	107	82.2	66.5	29.5	19.0	10.6	6.09
1.80V	161	139	103	79.3	64.5	28.5	18.7	10.5	5.99

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	387	314	205	156	122	53.9	35.7	21.1	12.1
1.65V	362	299	200	152	121	53.8	35.4	20.8	11.94
1.70V	339	283	195	150	121	53.8	34.9	20.4	11.85
1.75V	316	269	192	148	120	53.6	34.4	20.2	11.81
1.80V	293	254	189	146	119	53.3	34.3	20.0	11.78

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



Factory address: Fukang Industrial Zone, Longnan, Ganzhou, Jiangxi Province, China.
 Shenzhen Office: RM208-210, Building D, Tongju industrial Park, No.4, Longping West Road, Longgang District, Shenzhen.
 TEL: +86-755-28288189 sales@sfbattery.com www.sfbattery.com