

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

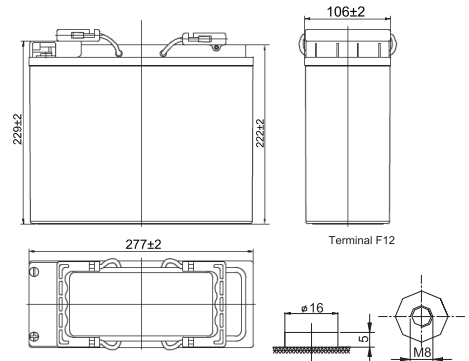
Specifications

Rated Voltage	12V	
Nominal Capacity	50Ah	(C ₁₀ , 10.8V)
Approx Weight	16.5kg±3%(36.4lbs)	
Terminal	F12	
Rated Capacity(25°C)	56 Ah	(20hr,2.8A,10.5V)
	50 Ah	(10hr,5A,10.8V)
	45.3 Ah	(5hr,9.06A,10.5V)
	35.2 Ah	(1hr,35.2A,9.6V)
Max.Discharge Current	500A(5s)	
Max.Charge Current	12.5A	
Internal Resistance(25°C)	Approx 8mΩ	
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 12.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 12.5A. 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	227±2mm (10.9 inches)
Width	106±2mm (4.17 inches)
Container Height	222±2mm (8.7 inches)
Total Height	229±2mm (9.02 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

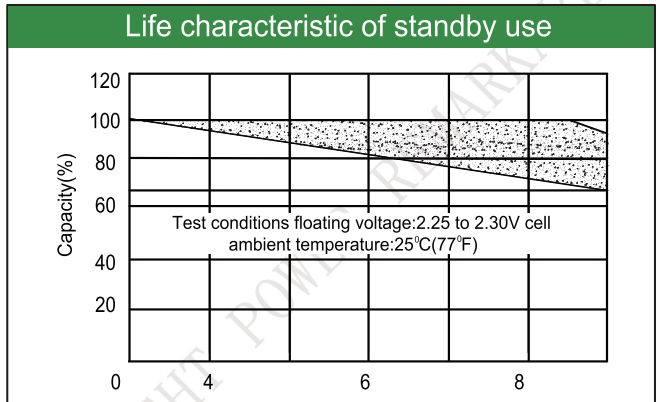
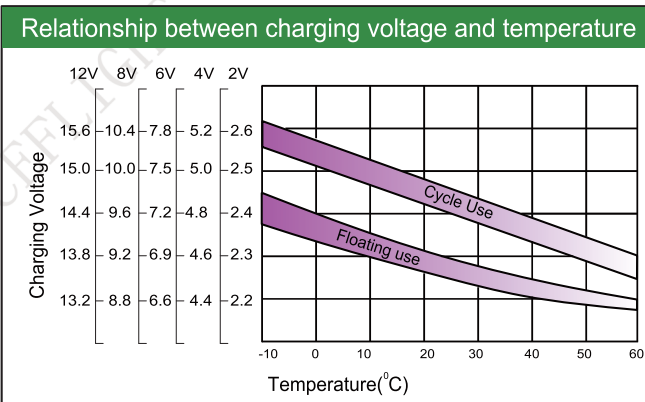
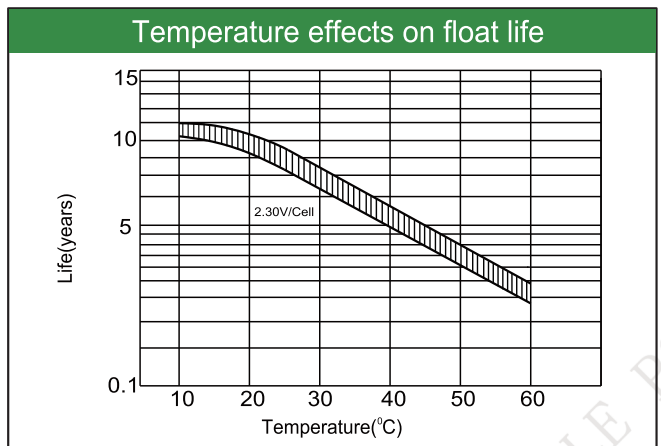
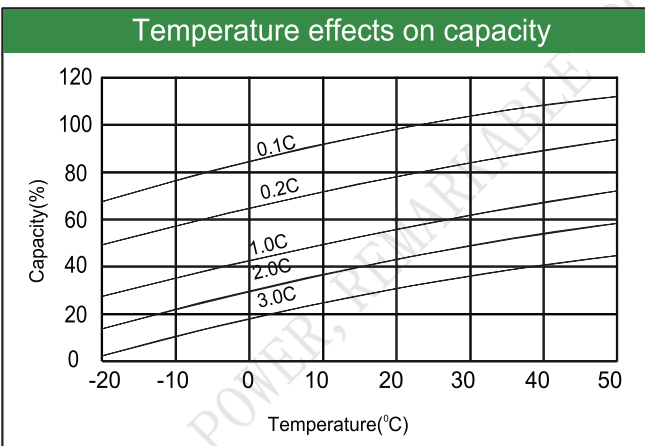
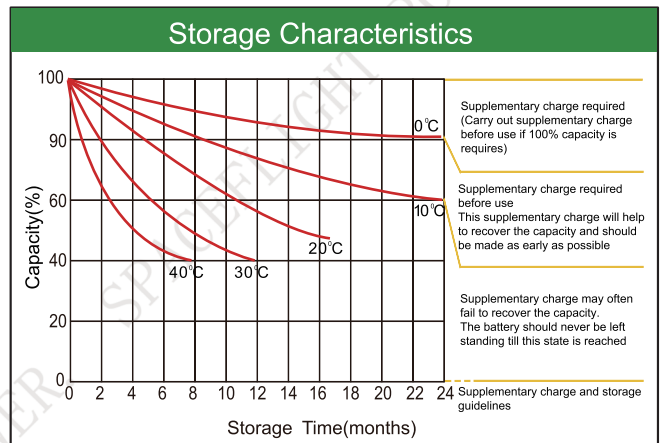
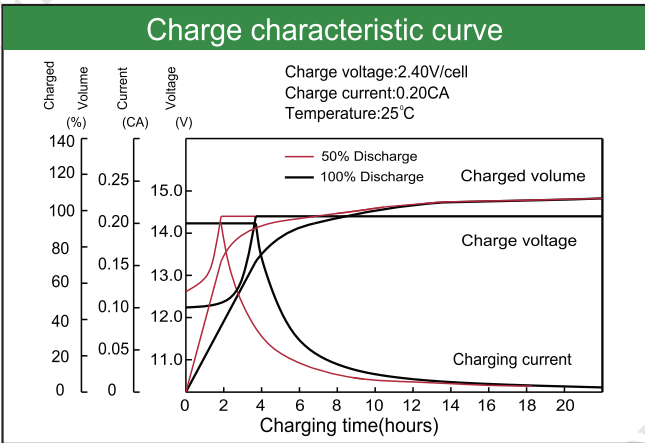
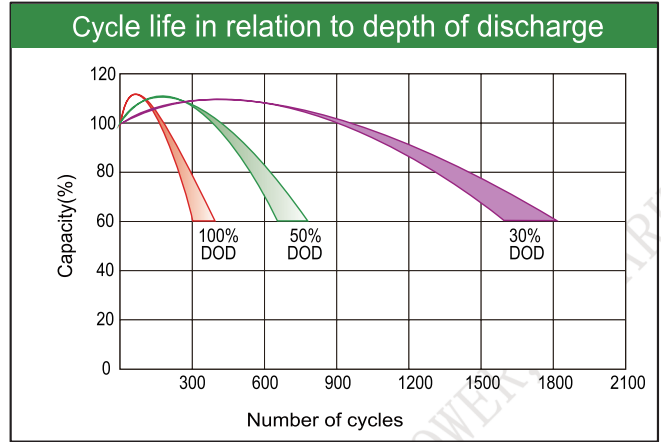
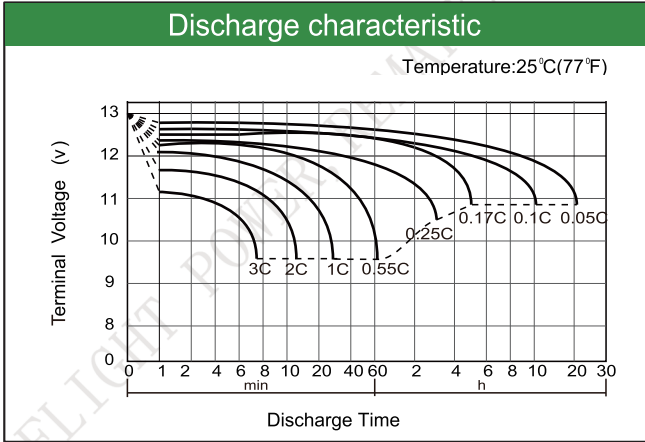
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	115	93.6	57.6	44.0	35.2	14.5	9.26	5.23	2.90
1.65V	108	86.4	55.5	42.7	34.5	14.3	9.19	5.20	2.90
1.70V	99	81.7	53.3	41.4	33.8	14.1	9.13	5.15	2.85
1.75V	93	76.9	51.2	40.1	33.1	13.8	9.06	5.10	2.80
1.80V	87	73.2	49.0	38.8	32.4	13.6	9.00	5.00	2.70

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	195	159	98.5	75.6	69.0	28.5	18.5	10.1	5.50
1.65V	184	148	95.4	73.8	67.1	28.2	18.4	10.0	5.49
1.70V	172	143	93.5	73.0	65.3	28.0	18.2	9.9	5.48
1.75V	165	137	91.6	72.1	63.5	27.7	18.1	9.8	5.48
1.80V	159	134	90.3	71.9	61.7	27.5	17.9	9.8	5.45

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