

HTH Series Battery

SPACEFLIGHT HTH series battery is High Rate battery based on advanced AGM technology, by using specially designed plates with more active materials which makes the battery can work under a heavy load discharge applications.

Applications

- Uninterruptible power supplies
- Telecommunication systems
- Communication equipments
- Emergency Power Systems
- Security system

General Features

- 10-12 years designed floating life(25°C)
- Non-spillable construction
- Sealed and maintenance-free
- High reliability and stability
- High purity raw material: long life and low self-discharge

Standards

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

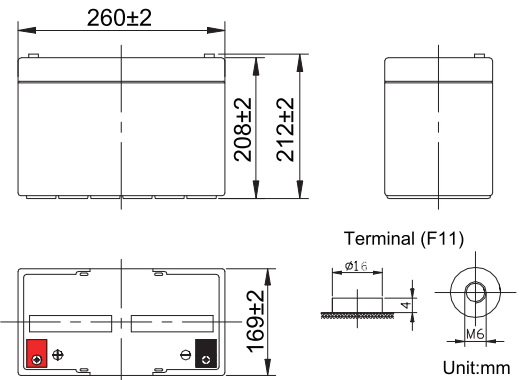
Specifications

Rated Voltage	12V	
Nominal Capacity	342W/cell	(15min rate@1.67V)
Approx Weight	24kg±3%(52.9lbs)	
Terminal	F11	
Rated Capacity(25°C)	80 Ah	(20hr, 4.0A, 10.5V)
	75 Ah	(10hr, 7.5A, 10.8V)
	68 Ah	(5hr, 13.6A, 10.5V)
	57 Ah	(1hr, 57A, 9.6V)
Max. Discharge Current	750A(5s)	
Max. Charge Current	18.8A	
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 @25°C(77°F)	Cycle Use	Initial Charging Current less than 18.8A. Voltage 14.4V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 18.8A. Voltage 13.6V~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	260±2mm (10.24 inches)
Width	169±2mm (6.65 inches)
Container Height	208±2mm (8.19 inches)
Total Height	212±2mm (8.35 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	Fiberglass	Sulfuric acid

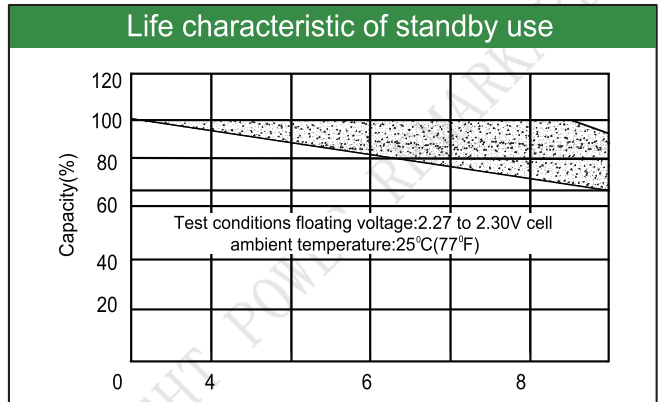
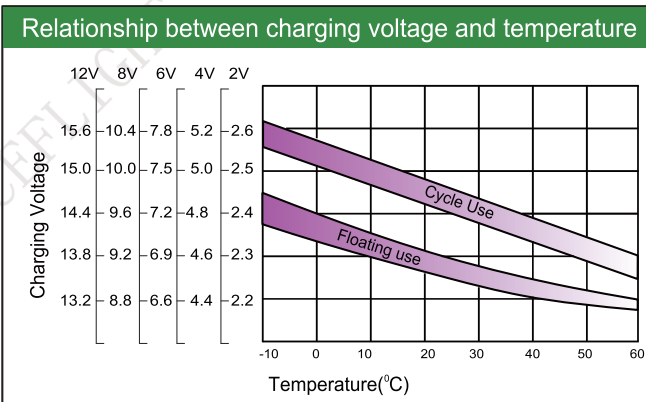
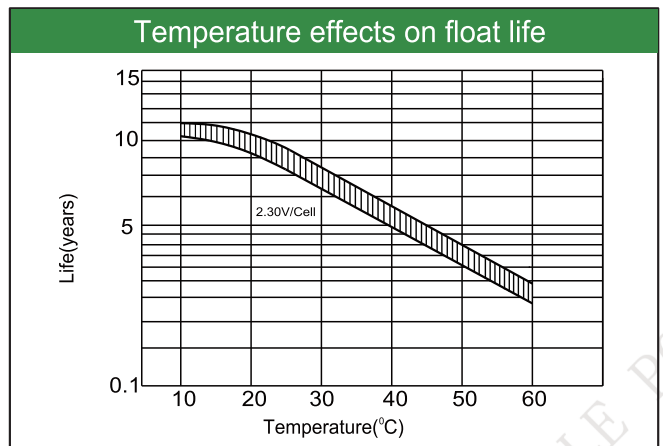
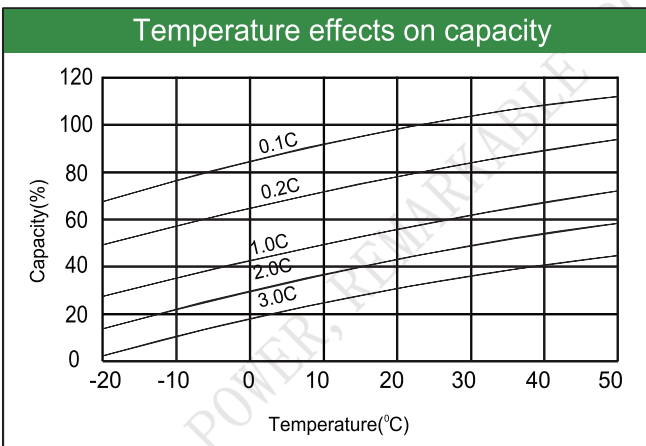
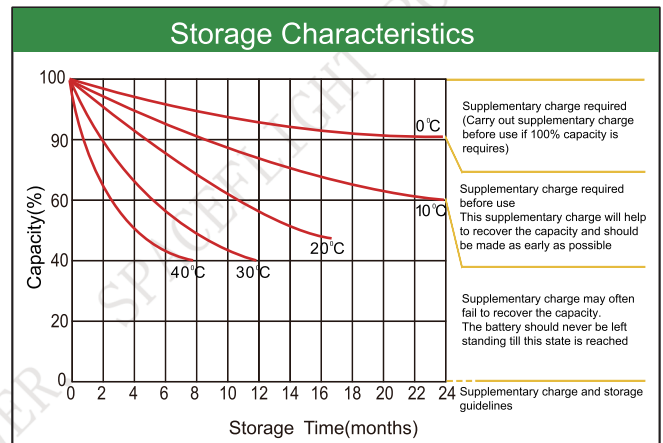
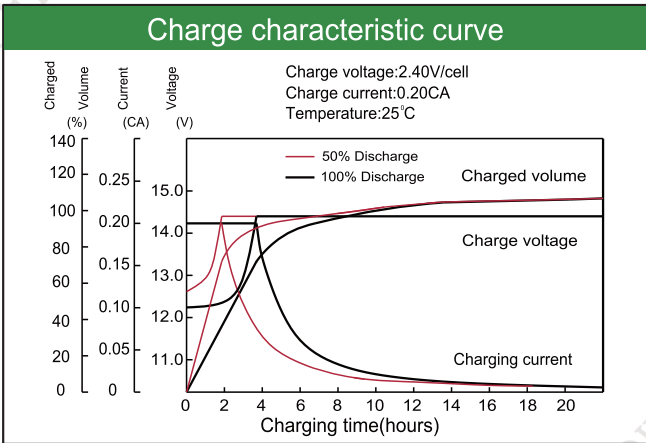
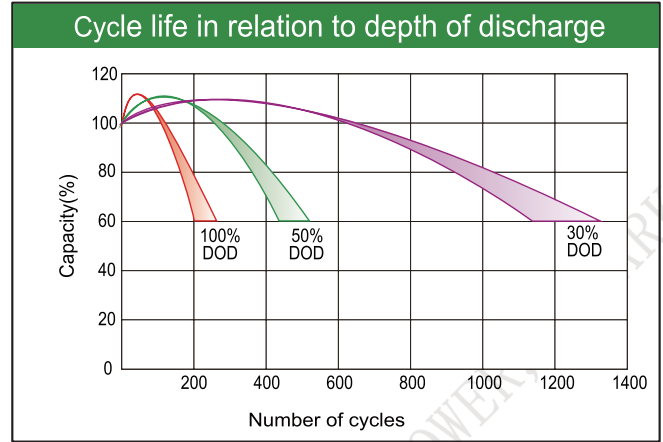
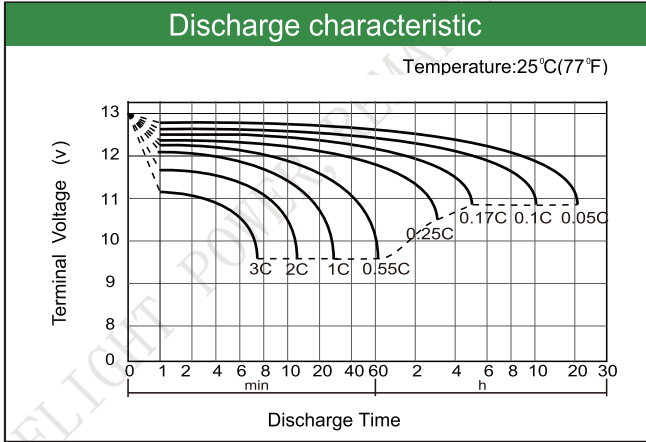
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	252	200	102	78.5	57.0	22.6	14.5	7.90	4.15
1.65V	245	196	98.0	76.5	56.0	21.9	14.3	7.80	4.10
1.70V	236	186	95.0	74.5	55.0	21.2	13.9	7.70	4.05
1.75V	223	178	92.0	72.5	54.0	20.3	13.6	7.60	4.03
1.80V	212	168	87.0	70.0	52.8	19.5	13.3	7.50	4.00

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	12h
1.60V	460	370	179.0	138.0	110.0	43.9	27.0	17.3	14.4
1.65V	442	355	176.5	136.1	107.5	43.0	26.8	17.0	14.2
1.67V	432	342	174.3	133.0	106.0	42.7	26.5	16.9	14.1
1.70V	420	333	172.2	131.2	105.0	41.9	26.2	16.8	14.0
1.75V	402	322	169.0	129.3	102.5	40.9	25.8	16.6	13.9
1.80V	385	309	166.8	128.6	101.5	39.8	25.5	16.3	13.7

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