

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

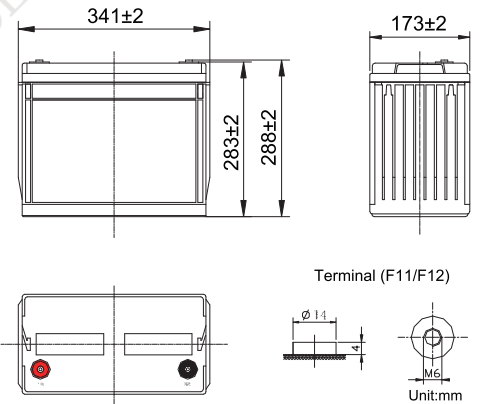
Specifications

Rated Voltage	12V	
Nominal Capacity	520W/Cell	(15min rate@1.67V)
Approx Weight	44kg±3%(97lbs)	
Terminal	F11/F12	
Rated Capacity(25°C)	145 Ah	(20hr,7.25A,10.5V)
	138 Ah	(10hr,13.8A,10.8V)
	132 Ah	(5hr,26.4A,10.5V)
	103 Ah	(1hr,103A,9.6V)
Max.Discharge Current	1380A(5s)	
Max.Charge Current	34.5A	
Internal Resistance(25°C)	Approx 3.5mΩ	
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 34.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 34.5A. 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	342±2mm (13.46 inches)
Width	172±2mm (6.77 inches)
Container Height	283±2mm (11.1inches)
Total Height	288±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	Fiberglass	Sulfuric acid

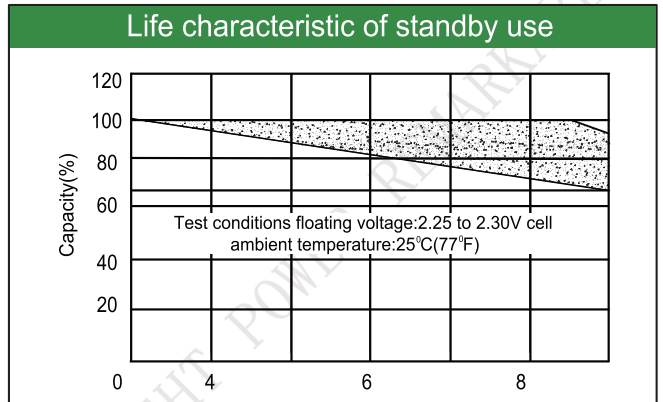
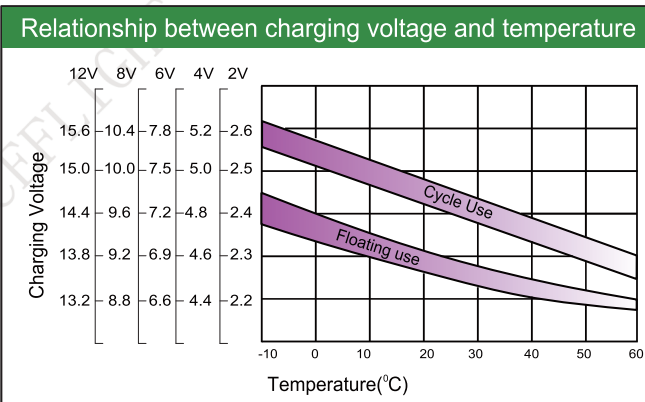
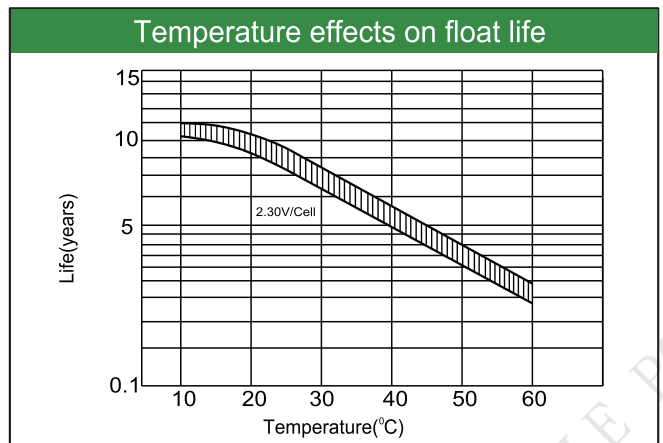
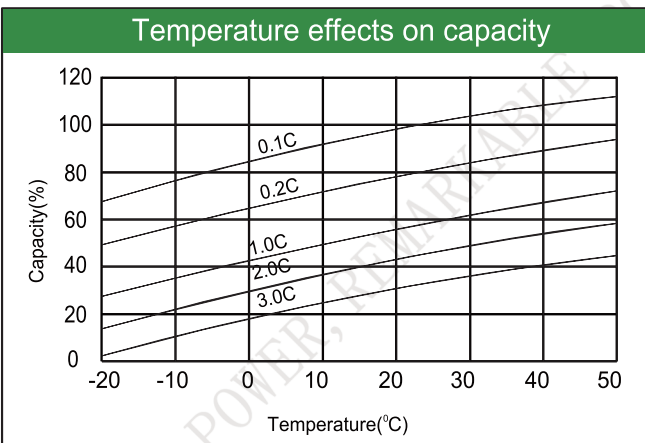
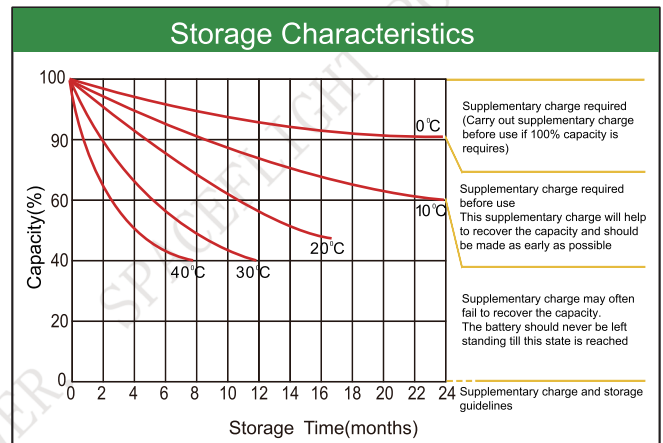
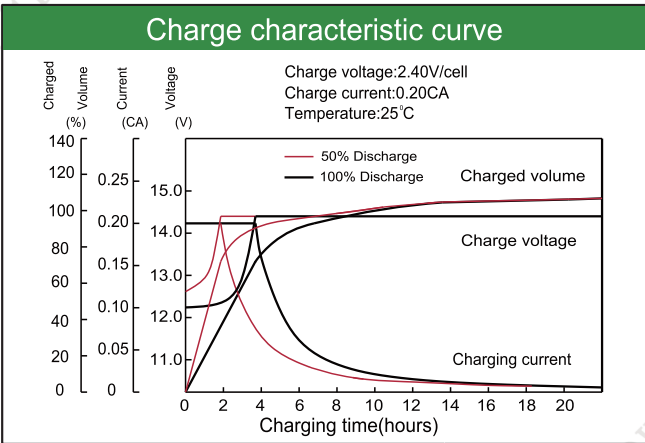
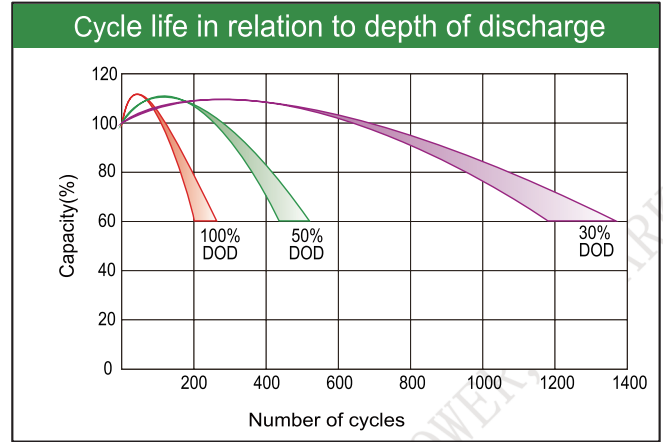
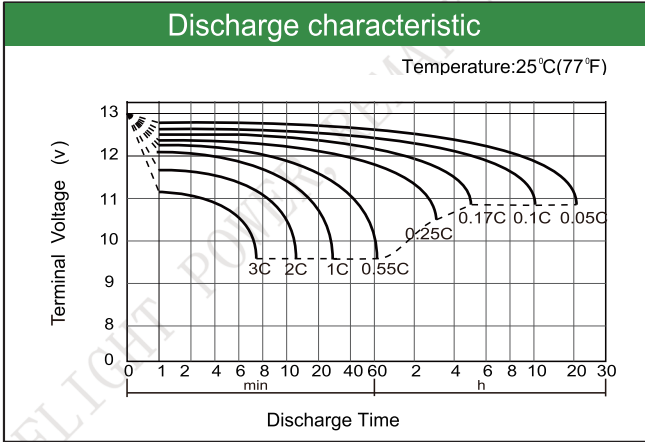
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	443	373	305	188	103	44.0	27.3	14.3	7.60
1.65V	425	355	288	182	102	43.1	27.0	14.2	7.35
1.67V	412	345	279	179	101	42.6	26.9	14.2	7.32
1.70V	396	335	270	175	100	42.0	26.8	14.1	7.30
1.75V	377	315	252	168	98	40.8	26.4	14.0	7.25
1.80V	343	293	233	160	95.5	39.5	26.0	13.8	7.15

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	782	610	550	344	256	203	117	86.2	52.1
1.65V	765	590	530	334	249	198	114	84.6	51.8
1.67V	745	580	520	330	245	195	113	84.0	51.3
1.70V	716	570	505	324	241	192	111	83.0	51.0
1.75V	689	545	480	314	233	187	108	81.4	50.7
1.80V	637	520	450	307	224	181	105	79.8	49.3

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



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