

HTH12-185W(12V45Ah)

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

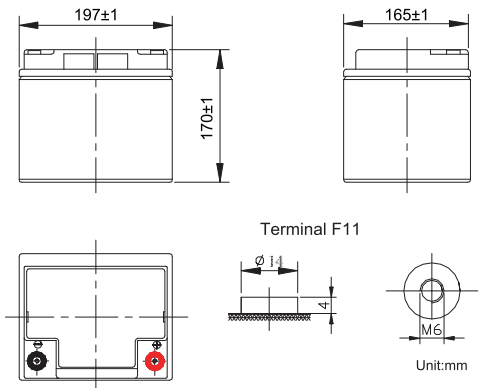
Specifications

Rated Voltage	12V	
Nominal Capacity	185W/cell	(15min rate@1.67V)
Approx Weight	15kg±3%(33.06lbs)	
Terminal	F11	
Rated Capacity(25°C)	49 Ah	(20hr,2.45A,10.5V)
	45 Ah	(10hr,4.5A,10.8V)
	41.75 Ah	(5hr,8.35A,10.5V)
	35.9 Ah	(1hr,35.9A,9.6V)
Max.Discharge Current	450A(5s)	
Max.Charge Current	11.3A	
Internal Resistance(25°C)	Approx 7mΩ	
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 11.3A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 11.3A. 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	197±2mm (7.76 inches)
Width	165±2mm (6.5 inches)
Container Height	170±2mm (6.69 inches)
Total Height	170±2mm (6.69 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

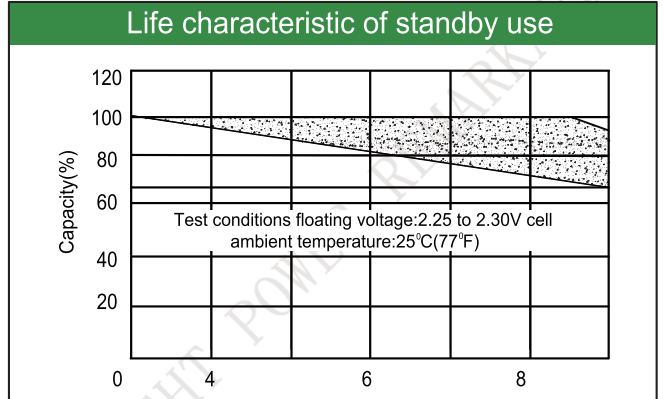
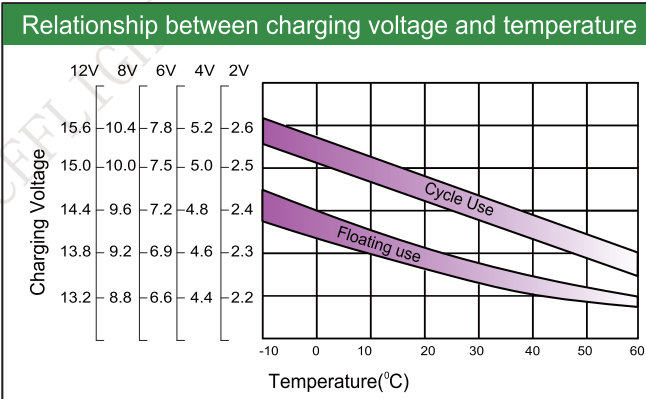
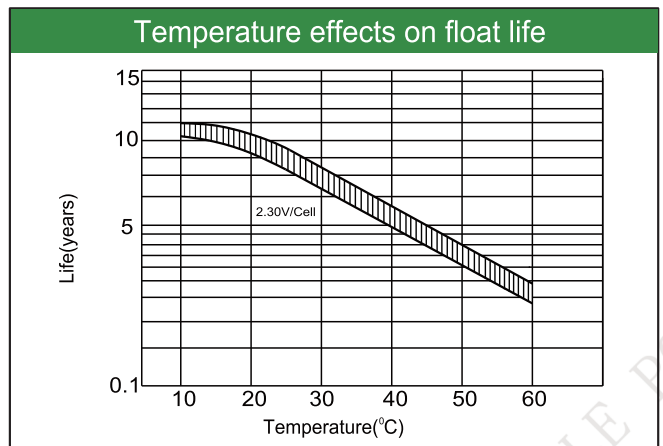
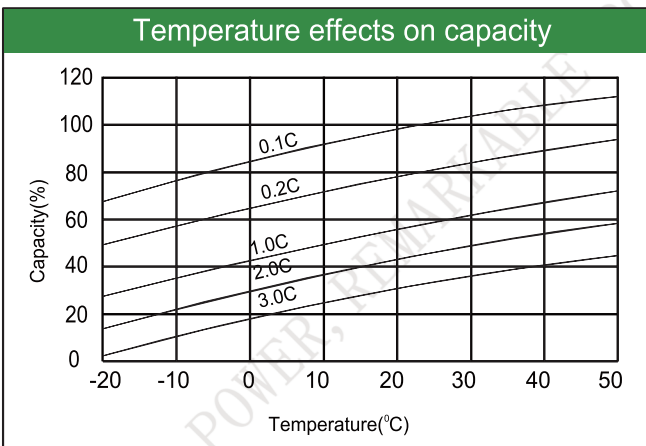
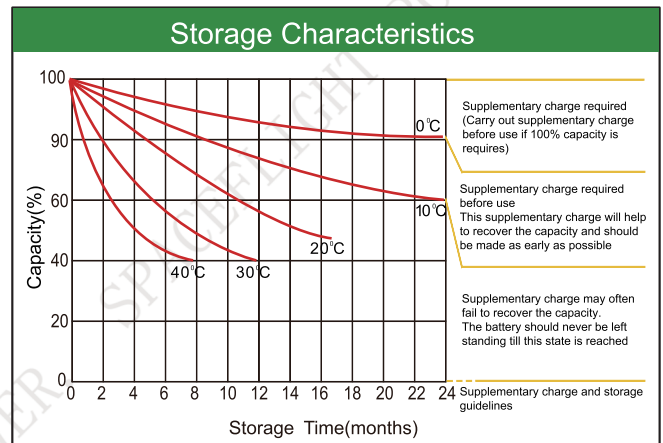
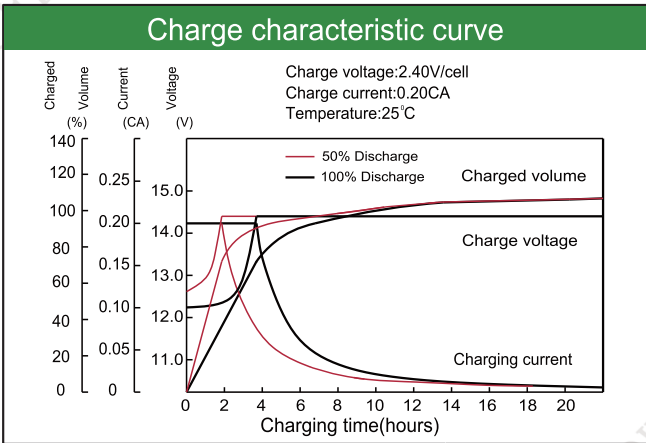
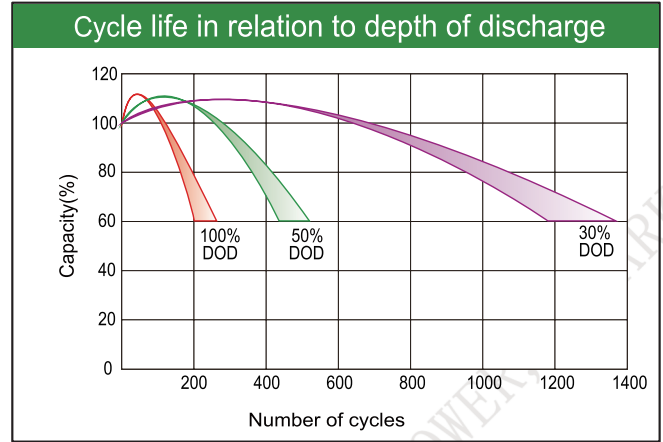
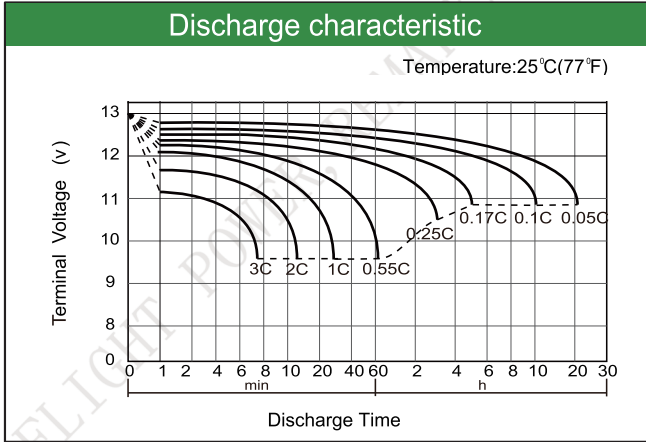
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	198	141	111	65.0	35.9	14.1	9.1	4.85	2.55
1.65V	190	136	106	63.3	35.0	13.7	8.85	4.80	2.55
1.70V	185	130	101	60.3	34.0	13.2	8.6	4.70	2.50
1.75V	175	124	96.0	57.2	33.0	12.6	8.35	4.60	2.45
1.80V	161	116	90.5	54.0	31.8	12.0	8.1	4.50	2.40

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	369	252	194	115	84.5	67.0	37.3	27.9	18.9
1.67V	345	241	185	108	80.0	64.5	35.5	26.5	18.0
1.70V	327	236	181	106	78.0	63.3	34.7	25.9	17.5
1.75V	323	227	174	101	74.5	61.3	33.4	24.8	16.7
1.80V	303	217	168	95.5	70.5	59.0	32.0	23.6	15.8

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



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