

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

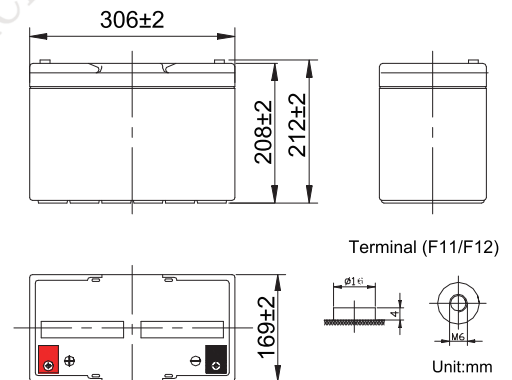
- Compliance with IEC, BS, JIS and EU standards
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage	12V	
Nominal Capacity	350W/Cell	(15min rate@1.67V)
Approx Weight	28.8kg±3%(63.49lbs)	
Terminal	F11/F12	
Rated Capacity(25°C)	96 Ah	(20hr,4.8A,10.5V)
	90 Ah	(10hr,9.0A,10.8V)
	80 Ah	(5hr,16A,10.5V)
	67 Ah	(1hr,67A,9.6V)
Max.Discharge Current	900A(5s)	
Max.Charge Current	22.5A	
Internal Resistance(25°C)	Approx 4.5mΩ	
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 22.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 22.5A. 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	306±2mm (12.1 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

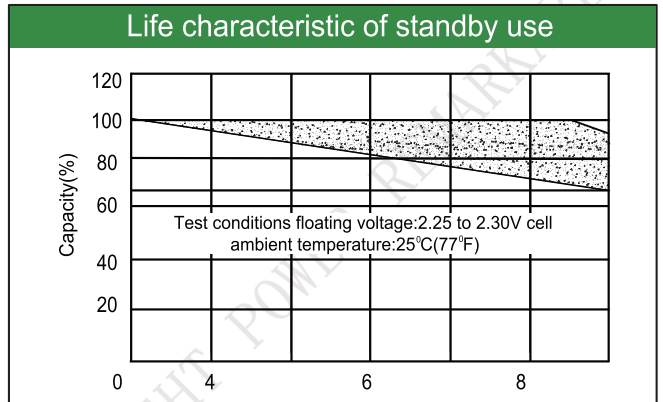
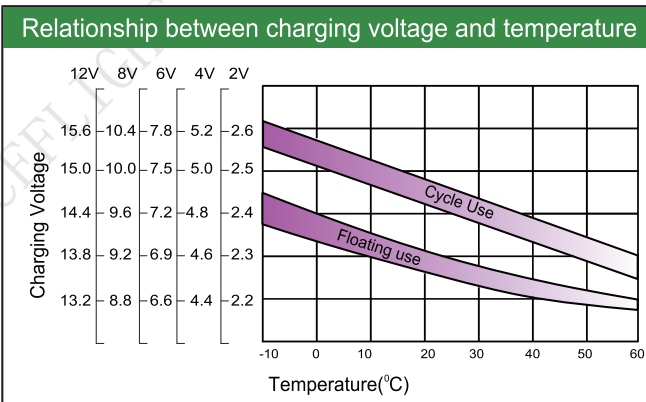
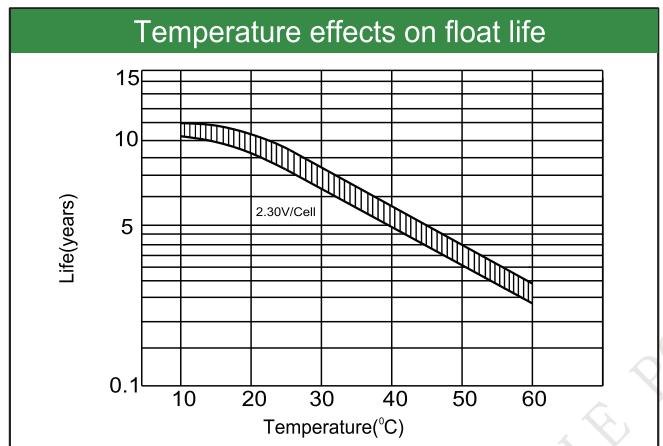
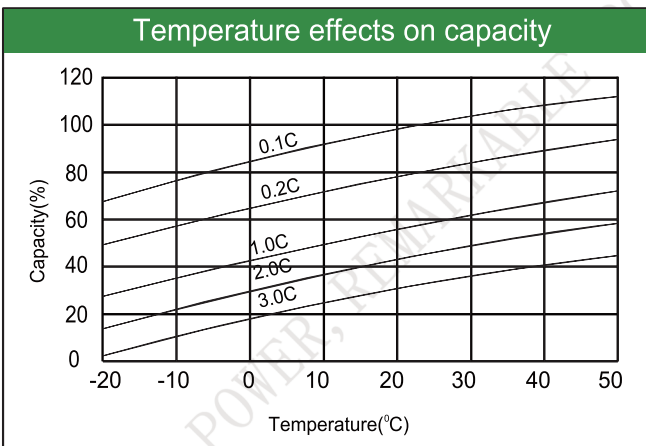
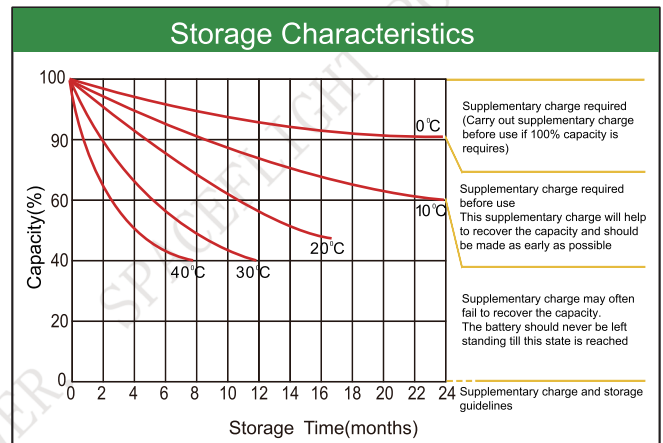
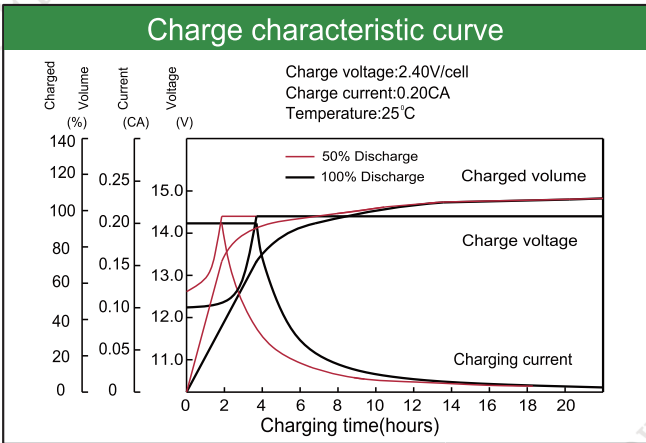
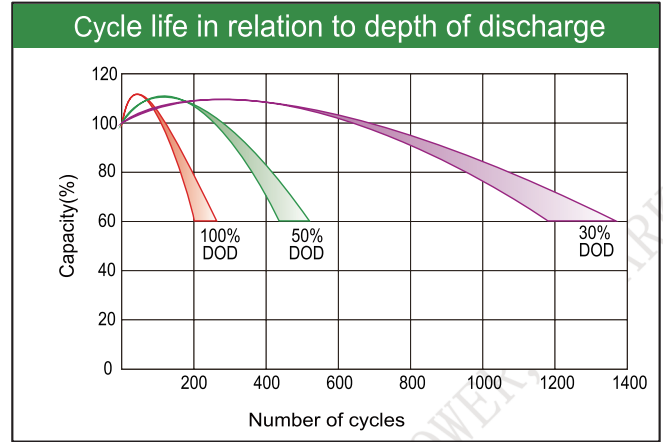
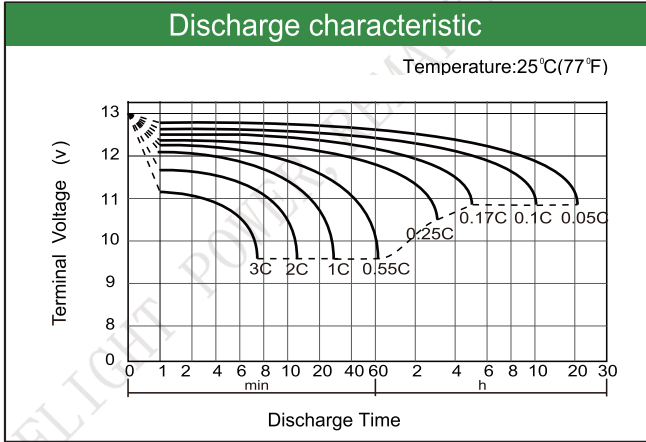
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	333	259	207	125	67.0	27.2	17.4	9.4	4.92
1.65V	319	250	200	122	65.5	26.4	17.0	9.4	4.90
1.67V	309	245	196	120	64.8	25.9	16.8	9.4	4.88
1.70V	298	240	192	118	64.0	25.5	16.5	9.3	4.85
1.75V	278	230	184	114	62.5	24.6	16.0	9.2	4.80
1.80V	251	218	174	109	60.5	23.6	15.4	9.0	4.70

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	593	464	374	229	166	130	70.5	51.2	34.2
1.65V	583	452	362	225	163	128	69.0	50.3	33.6
1.67V	570	440	350	220	160	125	67.5	49.5	33.0
1.70V	549	430	345	216	158	124	66.2	48.8	32.5
1.75V	525	412	334	210	152	121	64.0	47.6	31.6
1.80V	488	393	320	203	146	117	61.8	46.3	30.7

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



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