

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

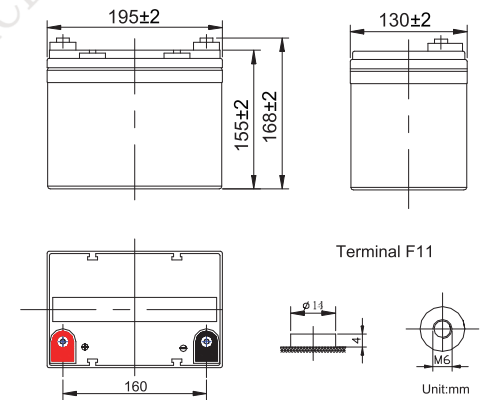
Specifications

Rated Voltage	12V	
Nominal Capacity	150W/cell	(15min rate@1.67V)
Approx Weight	10.8kg±3%(23.81lbs)	
Terminal	F11	
Rated Capacity(25°C)	35 Ah	(20hr,1.75A,10.5V)
	32 Ah	(10hr,3.2A,10.8V)
	31 Ah	(5hr,6.2A,10.5V)
	27.2 Ah	(1hr,27.2A,9.6V)
Max.Discharge Current	320A(5s)	
Max.Charge Current	8A	
Internal Resistance(25°C)	Approx 8.5mΩ	
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 8A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 8A. 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	195±2mm (7.68 inches)
Width	130±2mm (5.12 inches)
Container Height	155±2mm (6.10 inches)
Total Height	168±2mm (6.61 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

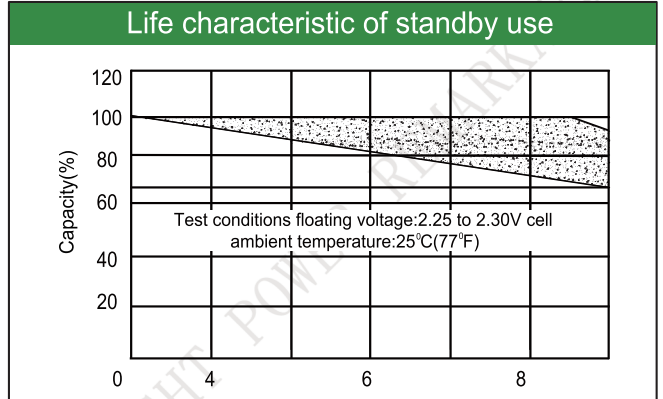
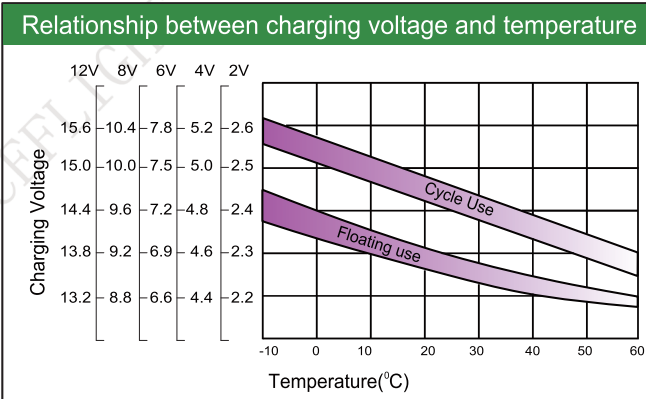
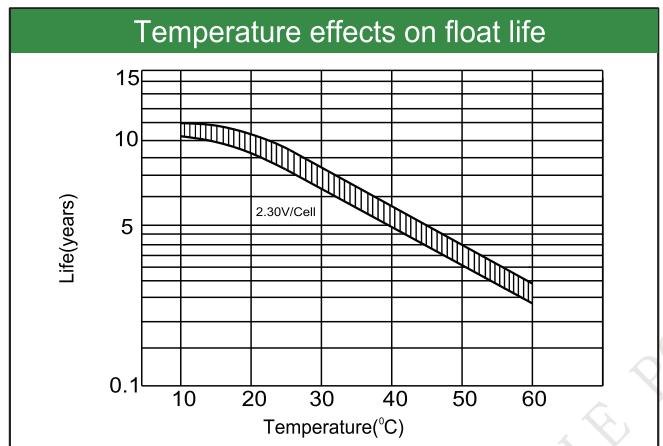
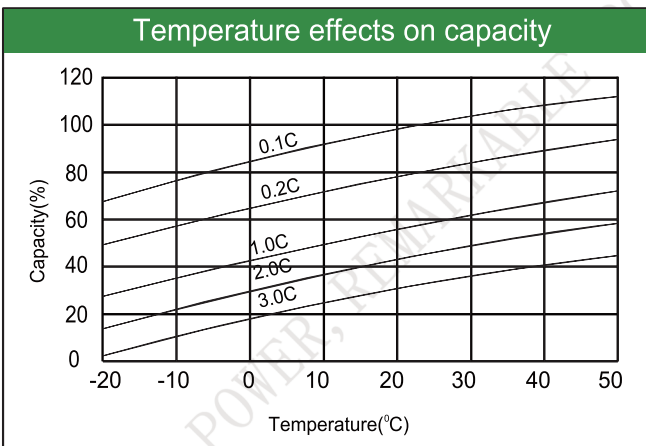
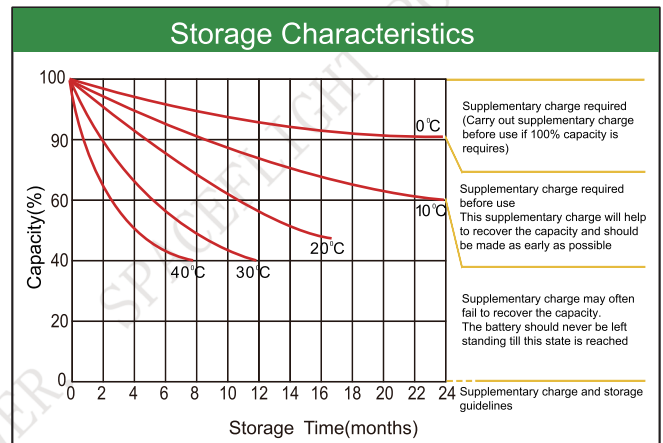
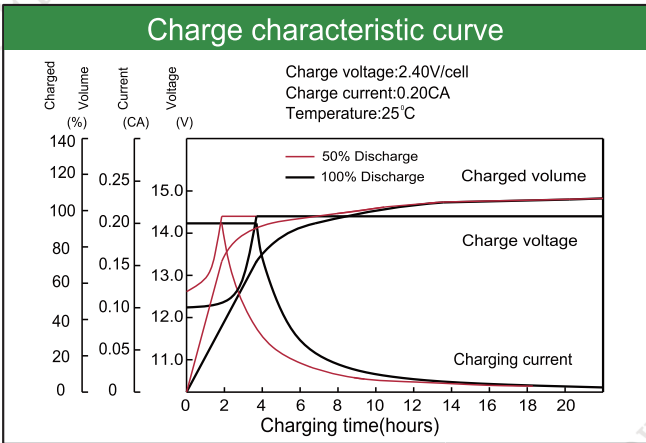
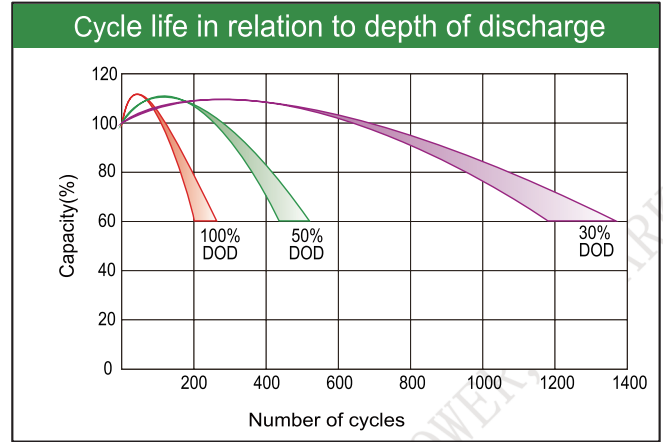
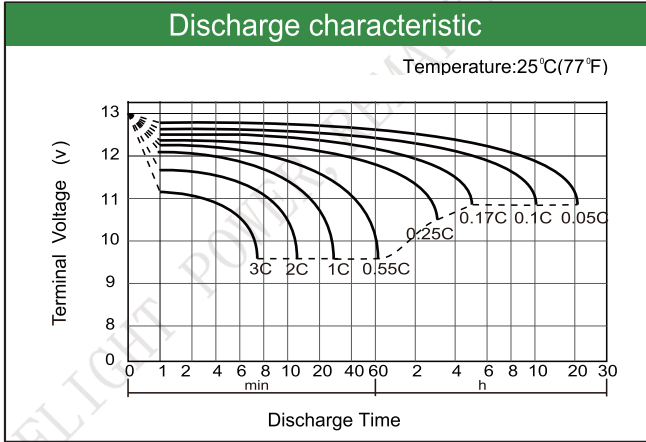
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	142	107	79.5	48.5	27.2	10.7	6.8	3.6	1.90
1.65V	136	104	76.5	47.1	26.8	10.5	6.7	3.5	1.85
1.67V	134	102	75.8	46.8	26.3	10.4	6.5	3.5	1.82
1.70V	132	100	75.0	46.5	25.8	10.3	6.4	3.4	1.80
1.75V	125	96	73.0	43.7	25.2	10.1	6.2	3.3	1.75
1.80V	115	93	69.5	41.4	24.3	9.9	6.1	3.2	1.70

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	264	179	160	95.5	65.8	54.0	29.5	20.6	13.4
1.65V	252	171	153	92.7	63.9	53.0	28.8	20.2	13.1
1.67V	247	167	150	91.5	63.0	52.5	28.5	20.0	12.8
1.70V	234	163	146	89.7	61.9	51.8	28.1	19.7	12.5
1.75V	231	157	139	86.7	59.9	50.6	27.4	19.2	12.2
1.80V	217	151	131	83.5	57.7	49.3	26.7	18.6	12.0

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



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