

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

5-8 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

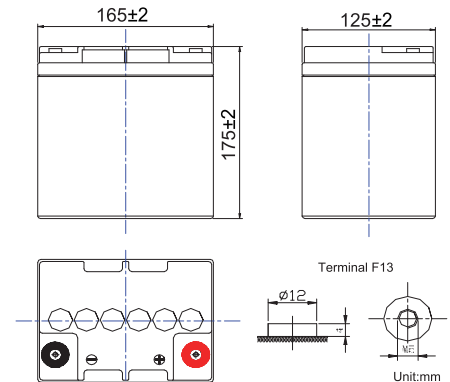
Specifications

Rated Voltage	12V	
Nominal Capacity	120W/cell	(15min rate@1.67V)
Approx Weight	8.8kg±3%(19.7lbs)	
Terminal	F13	
Rated Capacity(25°C)	31.0 Ah	(20hr,1.55A,10.5V)
	28.0 Ah	(10hr,2.8A,10.5V)
	26.0 Ah	(5hr,5.2A,10.5V)
	23.1 Ah	(1hr,23.1A,9.6V)
Max.Discharge Current	405A(5s)	
Max.Charge Current	6.8A	
Internal Resistance(25°C)	Approx 8mΩ	
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 6.8A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 6.8A. 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	165±2mm (6.50 inches)
Width	125±2mm (4.92 inches)
Container Height	175±2mm (6.89 inches)
Total Height	175±2mm (6.89 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

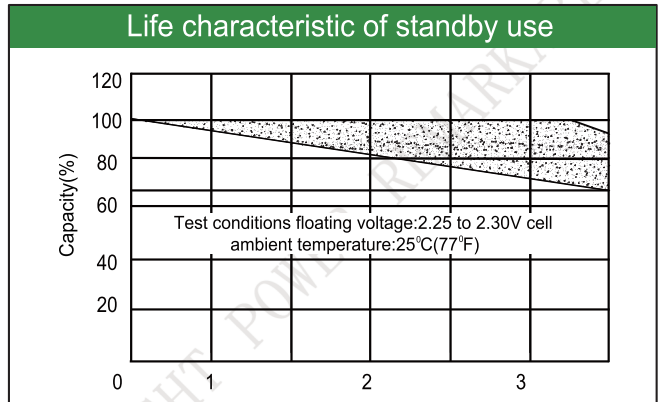
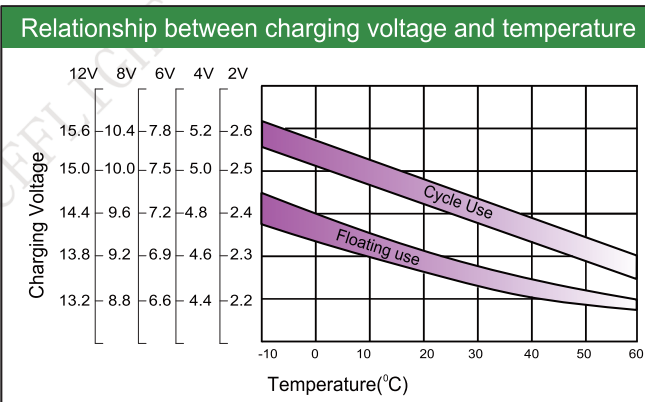
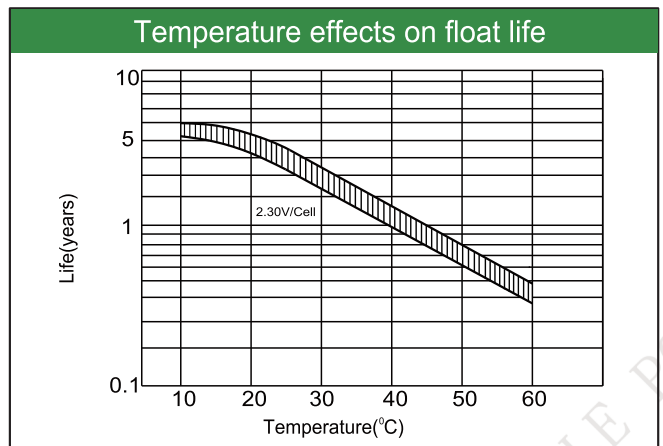
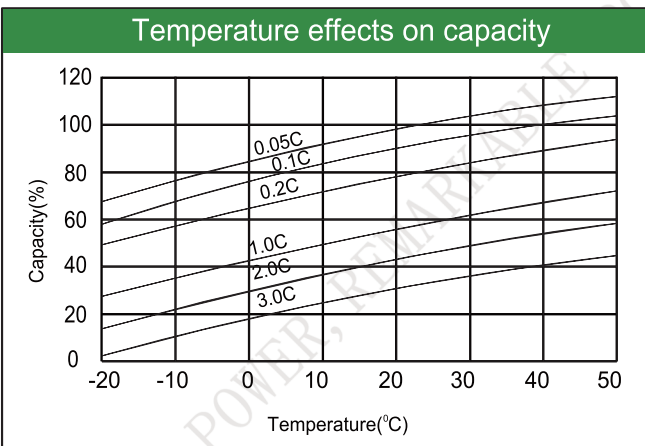
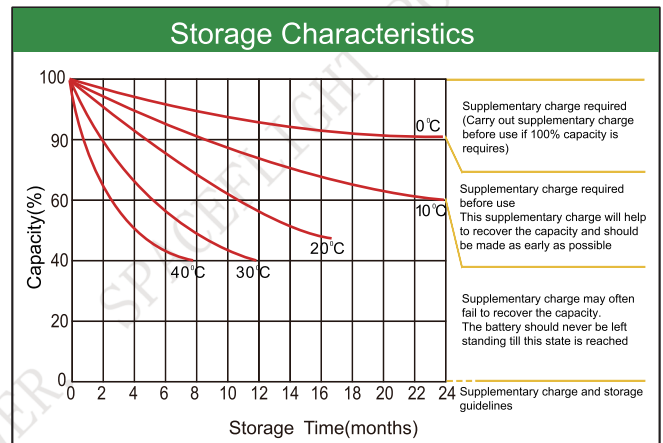
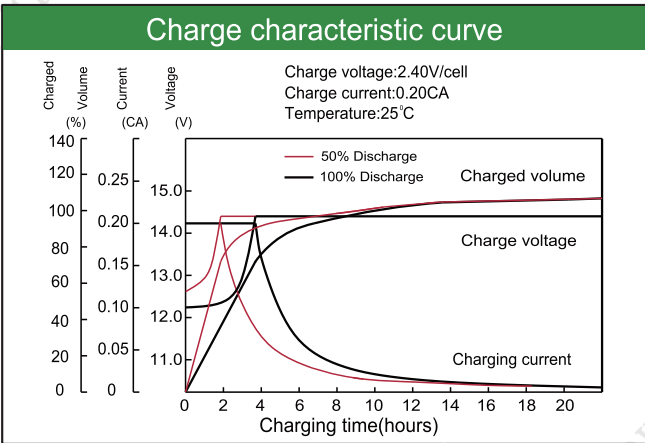
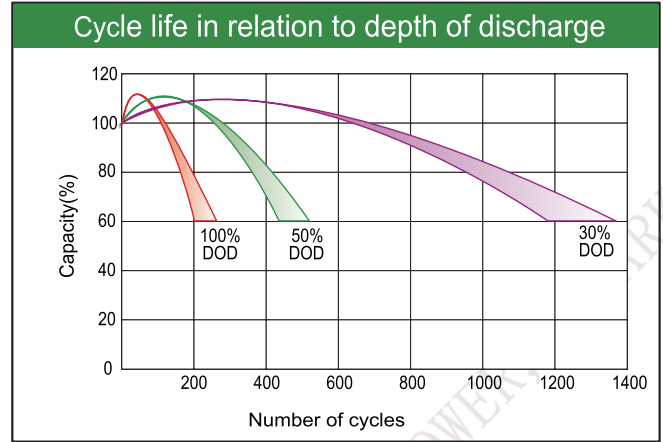
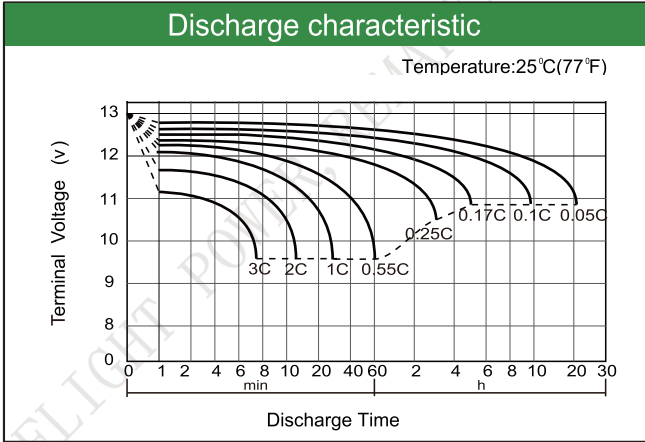
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	119	86.0	68.0	41.0	23.1	9.1	5.65	2.95	1.65
1.65V	114	82.5	65.5	40.0	22.3	8.9	5.50	2.90	1.65
1.70V	111	79.0	63.0	39.0	21.5	8.7	5.35	2.85	1.60
1.75V	105	75.5	60.5	37.4	20.7	8.5	5.20	2.80	1.55
1.80V	97	71.5	57.5	35.7	19.9	8.18	5.00	2.70	1.50

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	222	165	128	73.5	54.3	43.5	25.0	17.6	11.7
1.67V	208	154	120	70.5	52.0	41.5	23.5	16.8	11.2
1.70V	205	151	118	69.5	51.0	40.7	23.0	16.5	11.0
1.75V	194	144	113	67.5	49.2	39.3	22.0	15.9	10.6
1.80V	183	136	107	65.0	47.2	37.7	20.8	15.2	10.2

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



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