

### HTD Series Battery

SPACEFLIGHT HTD series battery is Deep Cycle AGM battery designed with thicker plates with more high-density active materials which makes the battery can with stand repeated deep cyclic applications.

### Applications

- Solar and wind power systems
- Communication systems
- Uninterruptible power supplies
- Golf carts and buggies
- Alarm and security system
- Electric toy and wheelchairs, etc

### General Features

- 10 years designed floating life(25°C)
- Non-spillable construction
- Sealed and maintenance-free
- Excellent recovery from deep discharge
- High density active materials plates
- Longer Life and low self-discharge

### Standards

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

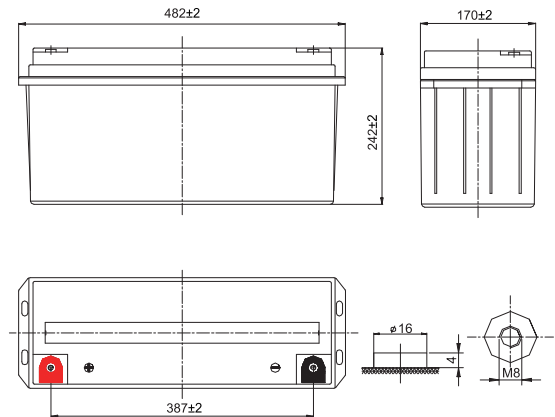
### Specifications

Rated Voltage	12V	
Nominal Capacity	150Ah	(C <sub>10</sub> , 10.8V)
Approx Weight	43kg±3%(94.8lbs)	
Terminal	F12	
Rated Capacity(25°C)	157 Ah	( 20hr,7.85A,10.5V)
	150 Ah	(10hr,15A,10.8V)
	133 Ah	(5hr,26.6A,10.5V)
	97 Ah	(1hr,97A,9.6V)
Max.Discharge Current	1500A(5s)	
Max.Charge Current	37.5A	
Internal Resistance(25°C)	Approx 4mΩ	
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 37.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 37.5A. 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	482±2mm (19.0 inches)
Width	170±2mm (6.69inches)
Container Height	242±2mm (9.53inches)
Total Height	242±2mm (9.53 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

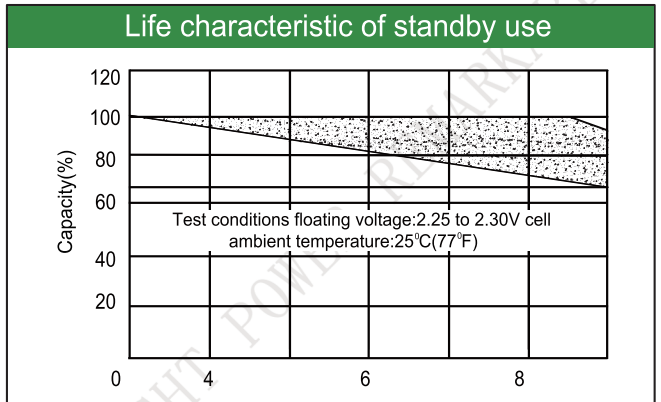
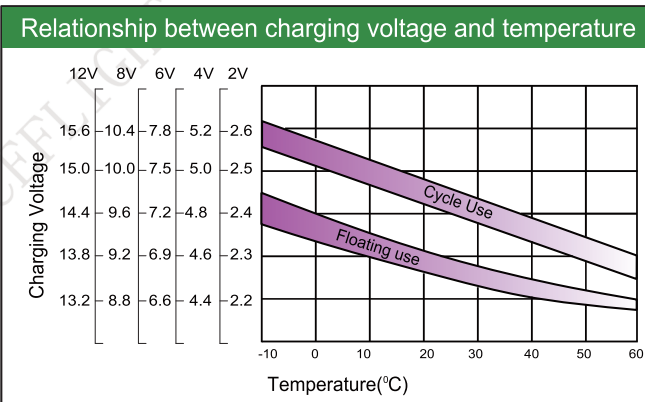
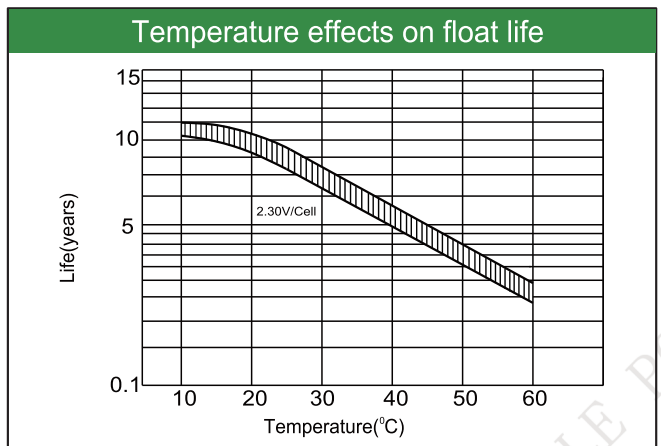
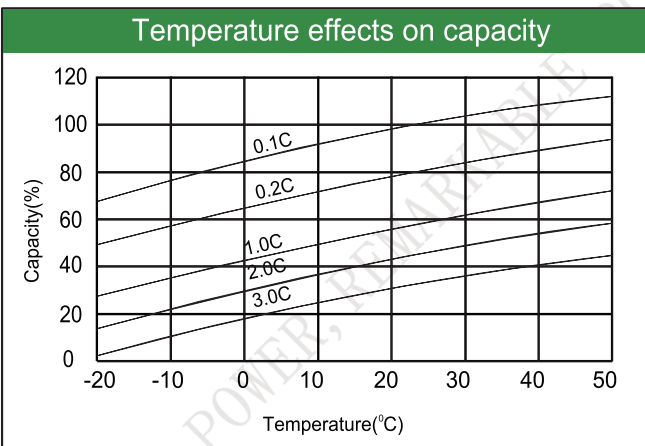
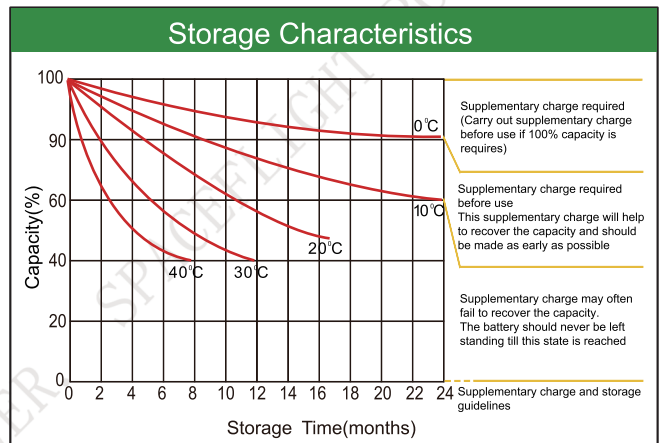
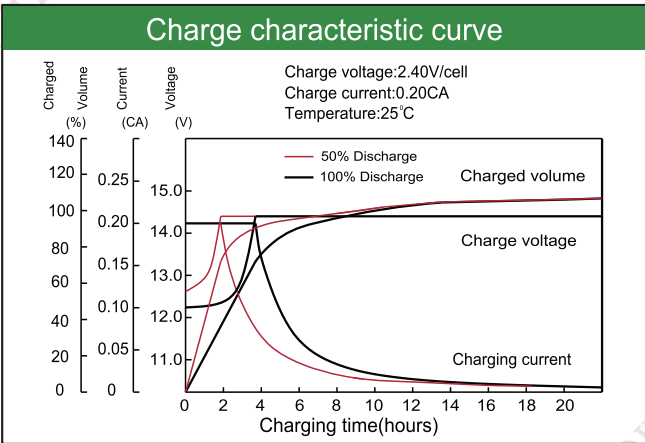
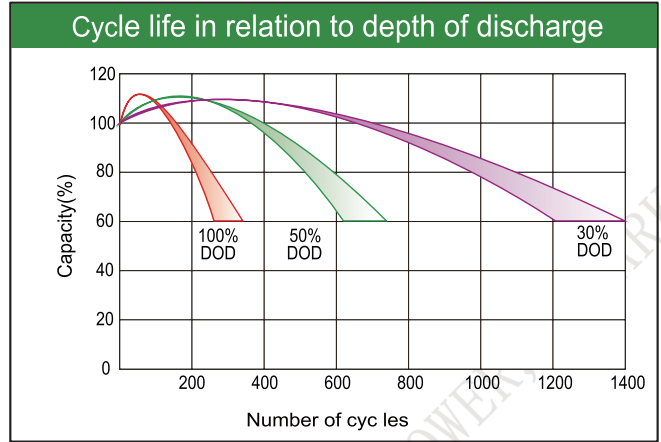
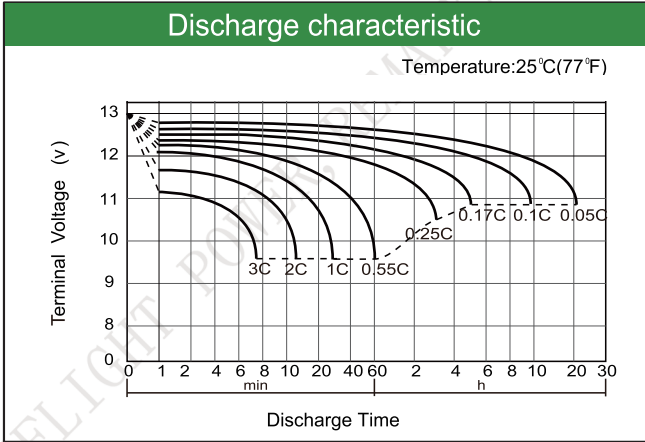
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	445	347	282	163	97.0	40.1	28.1	15.5	7.93
1.65V	415	327	267	158	95.0	39.4	27.6	15.4	7.90
1.70V	384	306	253	153	93.0	38.5	27.1	15.3	7.90
1.75V	352	286	239	147	91.0	38.0	26.6	15.2	7.85
1.80V	317	263	226	144	89.0	37.4	26.0	15.0	7.80

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	765	609	501	325	221	201	112	78.0	53.5
1.65V	734	579	483	315	216	198	110	77.1	53.2
1.70V	686	548	465	306	211	195	108	76.2	52.8
1.75V	638	519	446	296	206	190	106	75.3	52.5
1.80V	591	487	425	286	202	184	105	74.0	52.0

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



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