

### 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	40Ah	(C <sub>10</sub> , 10.8V)
Approx Weight	12.8kg±3%(28.2lbs)	
Terminal	F11	

Rated Capacity(25°C)	42.6 Ah	( 20hr,2.13A, 10.5V)
	40 Ah	(10hr,4A, 10.8V)
	34 Ah	(5hr,6.8A, 10.5V)
	25 Ah	(1hr,25A,9.6V)

Max.Discharge Current 400A(5s)

Max.Charge Current 10A

Internal Resistance(25°C) Approx 10mΩ

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 10A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 10A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C

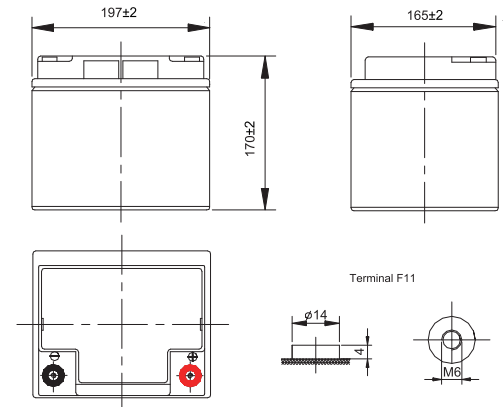
Temperature effects on capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
	-15°C (5°F)	65%

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 (6.50 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

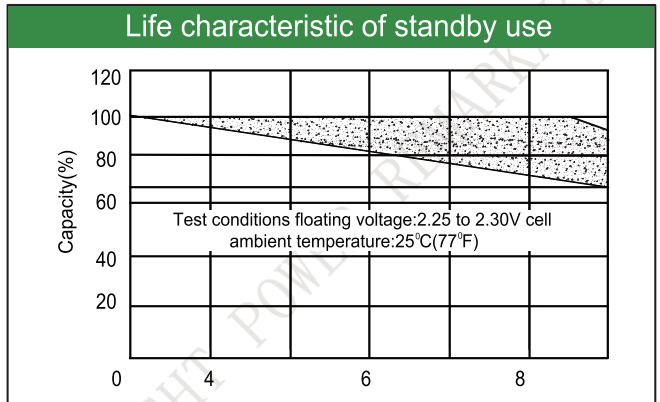
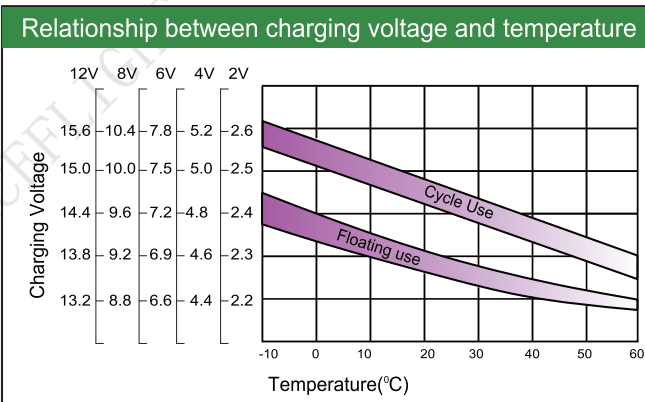
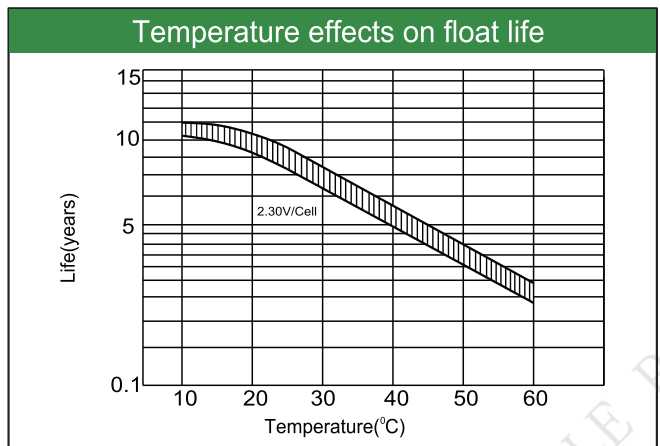
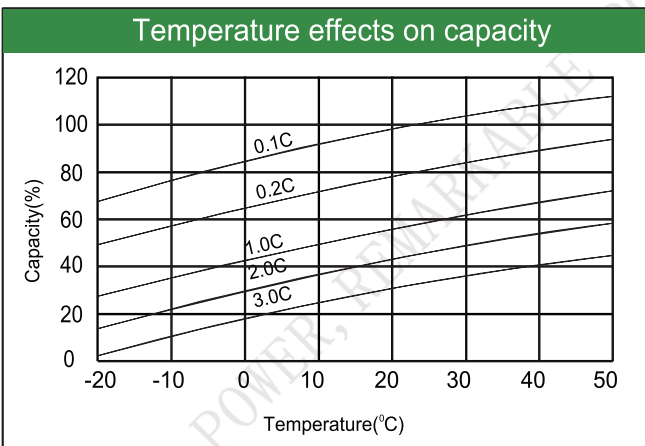
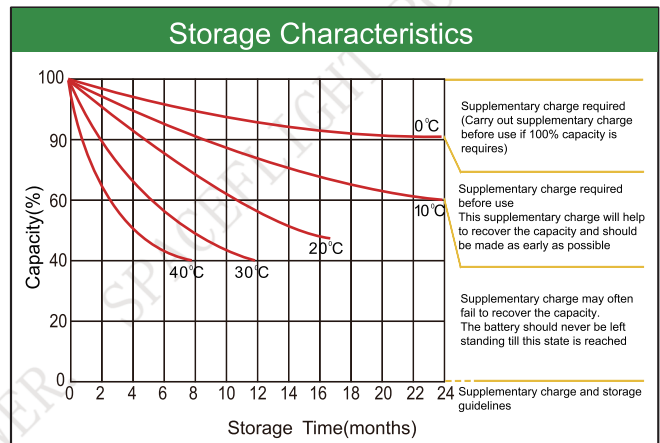
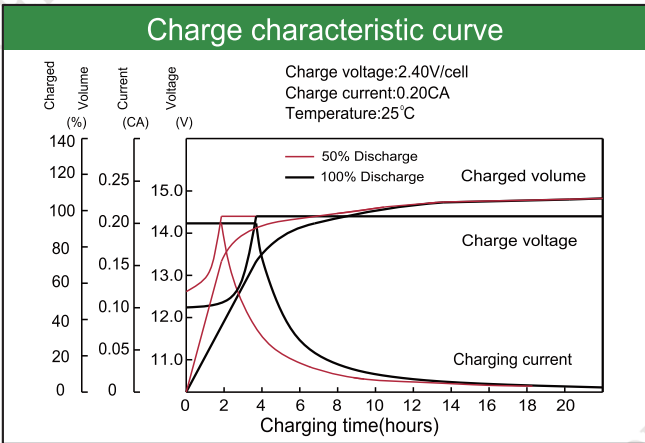
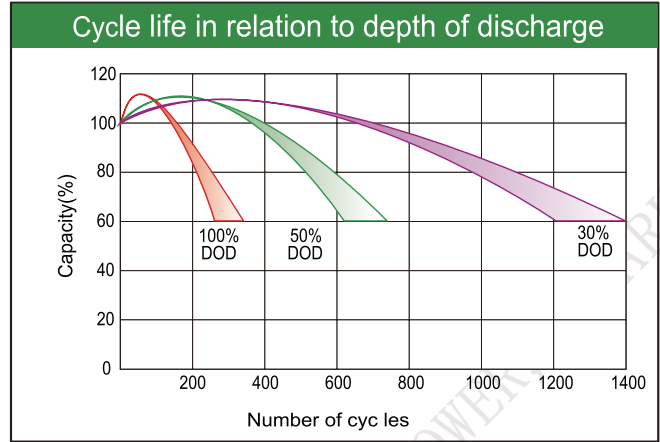
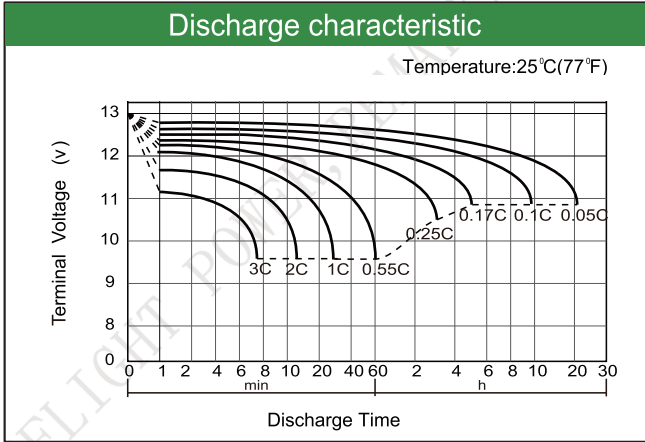
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	130	92.0	72.0	42.0	25.0	10.2	7.00	4.14	2.18
1.65V	123	87.4	69.3	40.7	24.2	10.1	6.90	4.09	2.17
1.70V	118	82.7	66.5	39.1	23.3	10.0	6.85	4.08	2.15
1.75V	109	78.1	63.2	37.2	22.1	9.85	6.80	4.05	2.13
1.80V	100	71.0	58.0	34.9	20.8	9.71	6.70	4.00	2.10

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	232	155	113	69.4	54.2	44.5	28.5	19.3	13.7
1.65V	218	146	107	65.9	51.7	42.6	27.6	18.8	13.5
1.70V	203	137	101	62.3	49.1	40.7	26.7	18.3	13.2
1.75V	189	128	94.0	58.7	46.5	38.7	25.6	17.7	12.9
1.80V	175	119	88.1	55.1	43.8	36.6	24.5	17.1	12.6

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



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