

### HTL Series Battery

SPACEFLIGHT HTL series battery is 2V Long Life lead acid battery which has been designed with special heavy duty grids and thicker plates which makes the battery provides consistent performance and longer service life at a critical application.

### Applications

- Uninterruptible power supplies
- Telecommunication systems
- Communication equipments
- Emergency Power Systems
- Security systems
- Solar/Wind systems

### General Features

- 20 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

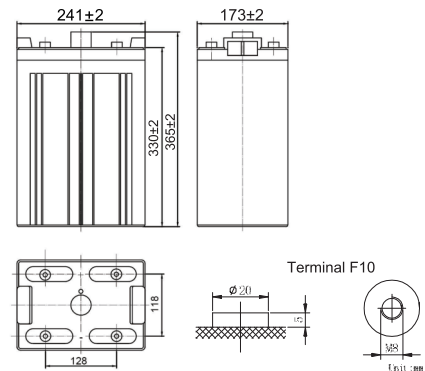
### Specifications

Rated Voltage	2V	
Nominal Capacity	500Ah	(C <sub>10</sub> , 1.8V)
Approx Weight	30.5kg±3%(67.24lbs)	
Terminal	F10	
Rated Capacity(25°C)	500 Ah	(10hr,50A,1.80V)
	440 Ah	(5hr,88A,1.75V)
	378 Ah	(3hr,126A,1.70V)
	300 Ah	(1hr,300A,1.60V)
Max.Discharge Current	2500A(5s)	
Max.Charge Current	125A	
Internal Resistance(25°C)	Approx 0.7mΩ	
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 125A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 125A. Voltage 2.25V~2.3V 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	241±2mm (9.49 inches)
Width	175±2mm (6.89 inches)
Container Height	330±2mm (13.0 inches)
Total Height	365±2mm (14.4 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

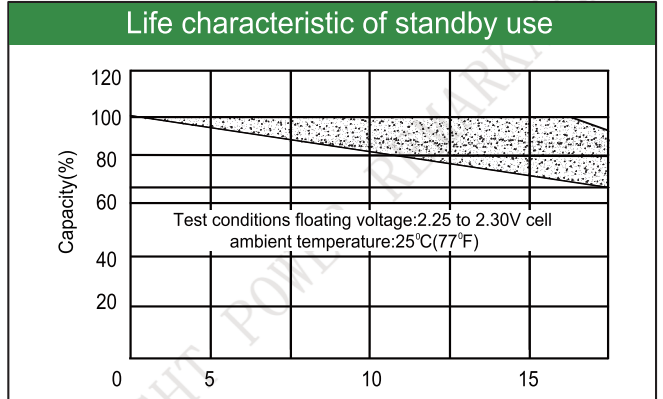
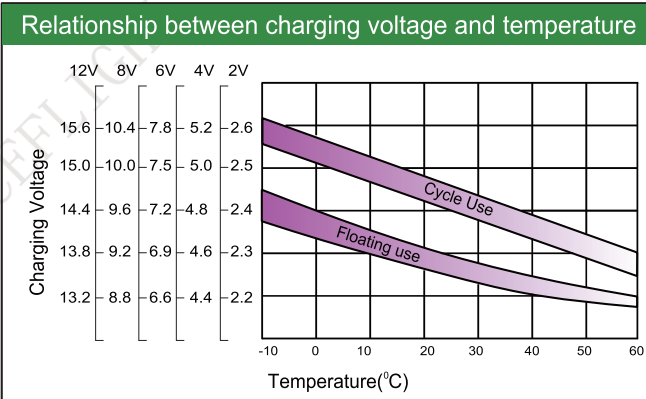
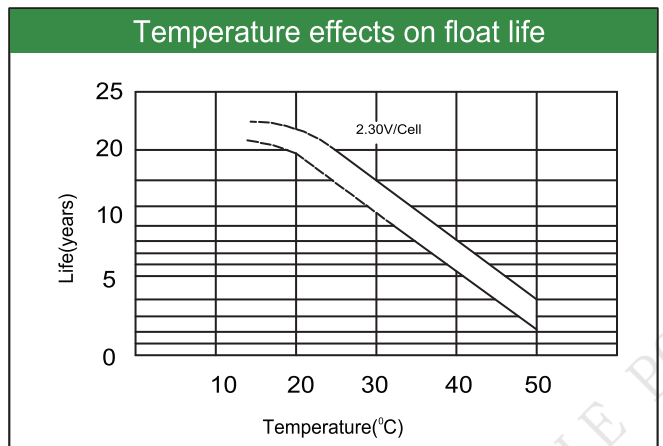
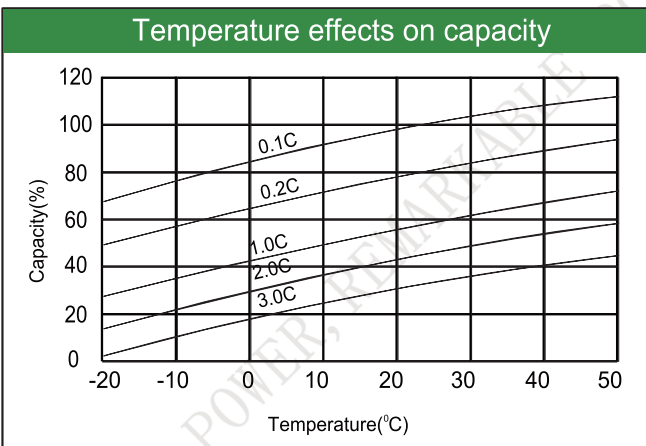
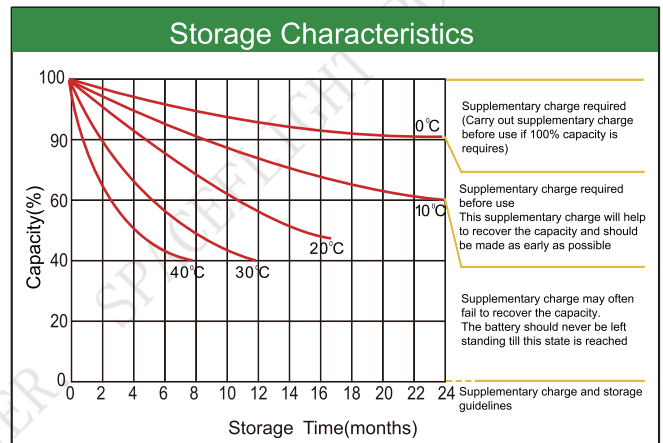
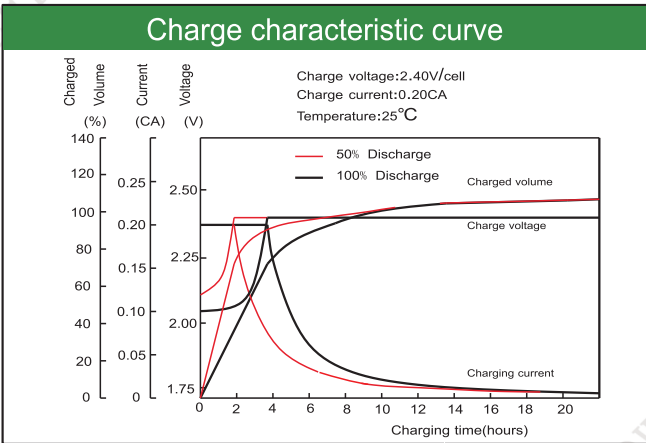
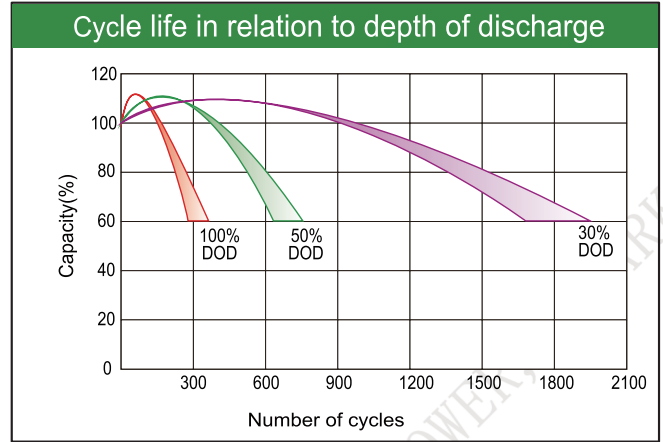
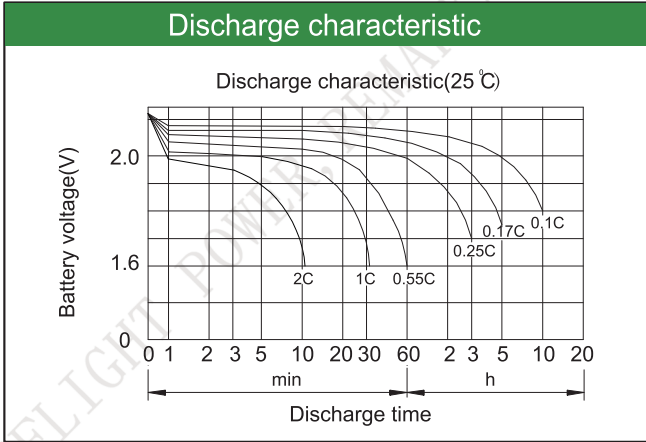
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	958	736	500	383	300	134	94.5	53.8
1.65V	/	911	703	480	368	290	130	92.5	53.1
1.70V	/	864	675	460	352	278	126	90.5	52.2
1.75V	/	818	643	432	335	266	122	88.0	51.2
1.80V	/	768	611	405	317	253	115	85.0	50.0

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	1675	1322	930	670	557	378	270	167
1.65V	/	1597	1272	883	645	528	361	260	164
1.70V	/	1518	1222	836	615	502	345	247	161
1.75V	/	1439	1172	787	595	489	330	236	157
1.80V	/	1390	1114	738	586	469	304	217	149

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



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