

### 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

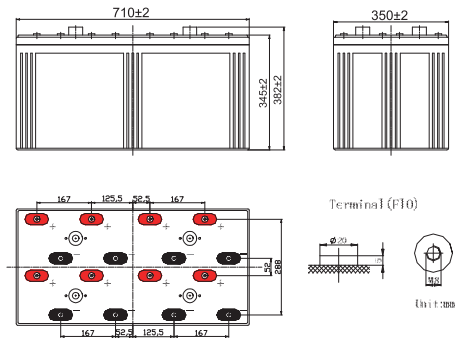
### Specifications

Rated Voltage	2V	
Nominal Capacity	4000Ah	(C <sub>10</sub> ,1.8V)
Approx Weight	228kg±3%(502.65lbs)	
Terminal	F10	
Rated Capacity(25°C)	4000 Ah	(10hr,400A,1.80V)
	3470 Ah	(5hr,694A,1.75V)
	3060 Ah	(3hr,1020A,1.70V)
	2460 Ah	(1hr,2460A,1.60V)
Max.Discharge Current	20000A(5s)	
Max.Charge Current	1000A	
Internal Resistance(25°C)	Approx 0.15mΩ	
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	Cycle Use	Initial Charging Current less than 1000A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 1000A. 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	710±2mm (27.95 inches)
Width	350±2mm (13.8 inches)
Container Height	345±2mm (13.6 inches)
Total Height	382±2mm (15.04 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

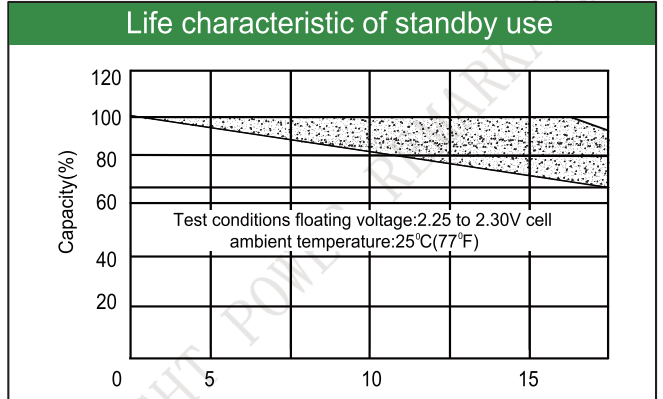
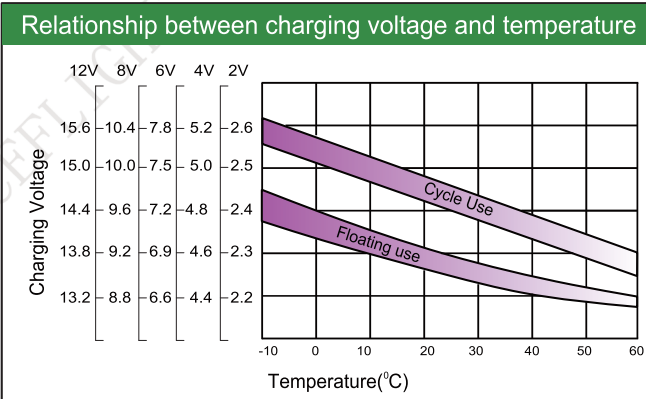
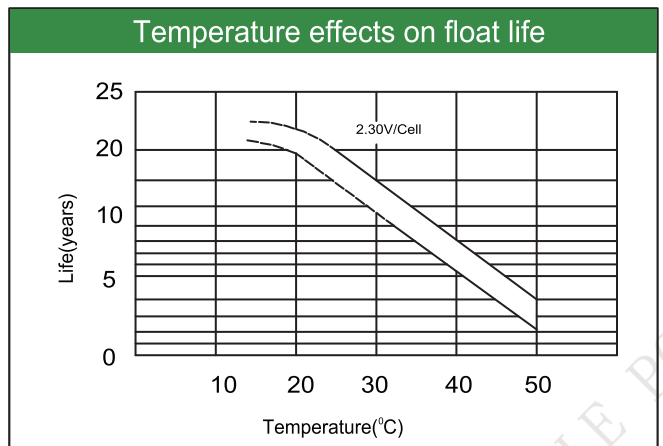
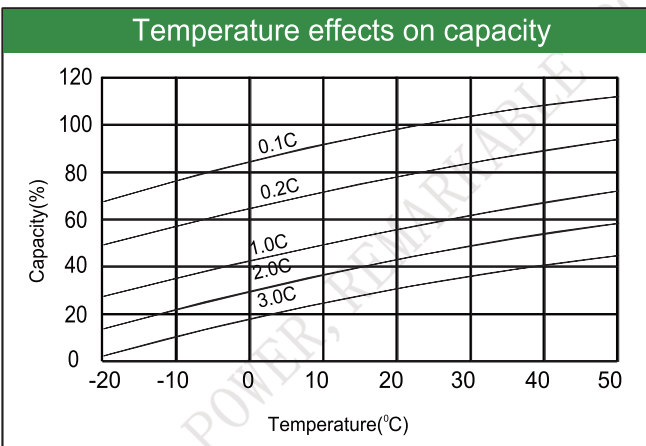
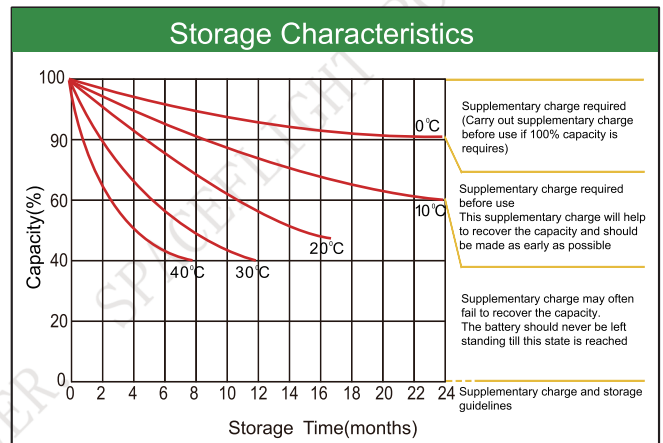
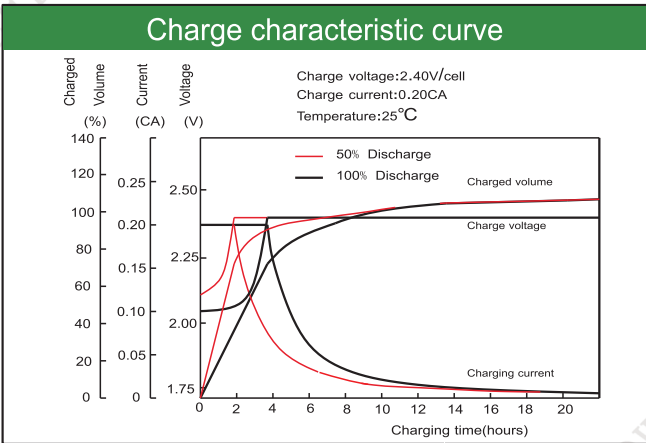
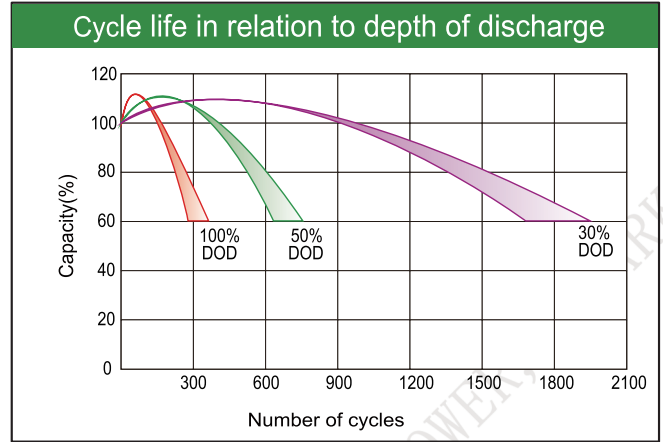
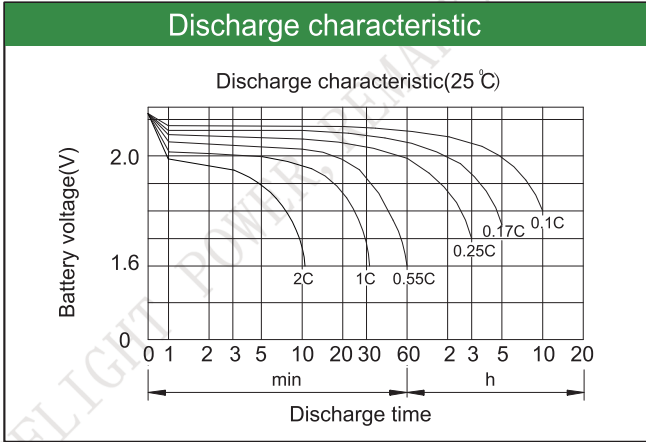
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	6840	6053	3971	2878	2460	1099	773	424
1.65V	/	6484	5760	3798	2760	2389	1066	751	419
1.70V	/	6118	5458	3611	2638	2301	1020	713	413
1.75V	/	5732	5151	3424	2510	2232	989	694	406
1.80V	/	5352	4840	3231	2333	2126	943	651	400

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	11125	10008	6509	4690	4064	2714	1794	1267
1.65V	/	10929	9675	6331	4609	3998	2686	1781	1255
1.70V	/	10578	9410	6240	4563	3975	2587	1759	1234
1.75V	/	10177	9167	6059	4441	3943	2477	1744	1230
1.80V	/	9792	8906	5944	4274	3911	2358	1735	1203

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



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