

### 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

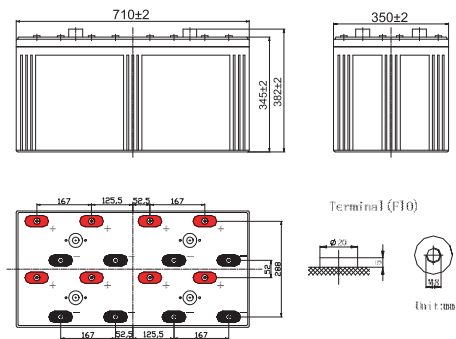
#### Specifications

Rated Voltage	2V	
Nominal Capacity	3000Ah	(C <sub>10</sub> , 1.8V)
Approx Weight	180kg±3%(396.83lbs)	
Terminal	F10	
Rated Capacity(25°C)	3000 Ah	(10hr,300A,1.80V)
	2675 Ah	(5hr,535A,1.75V)
	2310 Ah	(3hr,770A,1.70V)
	1850 Ah	(1hr,1850A,1.60V)
Max.Discharge Current	15000A(5s)	
Max.Charge Current	750A	
Internal Resistance(25°C)	Approx 0.45mΩ	
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 750A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 750A. 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

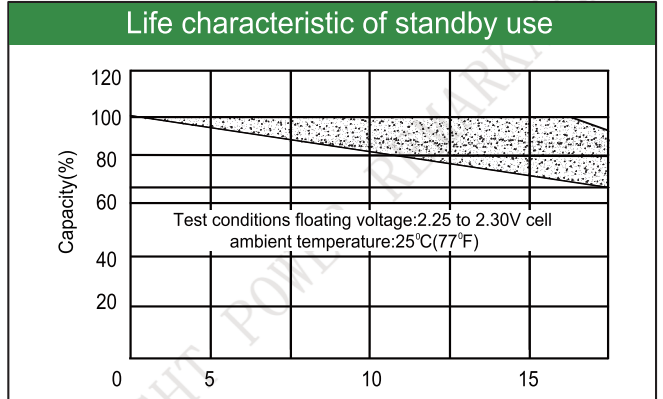
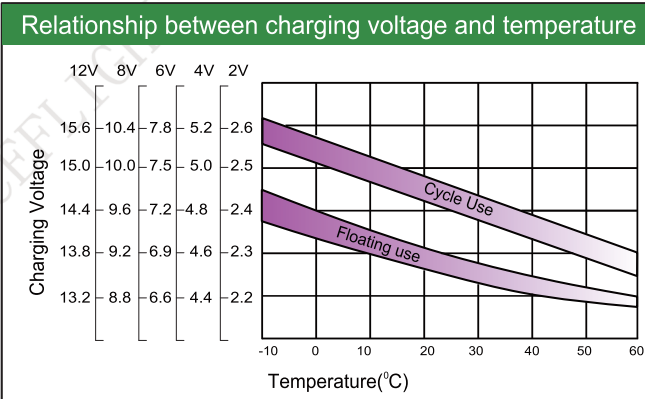
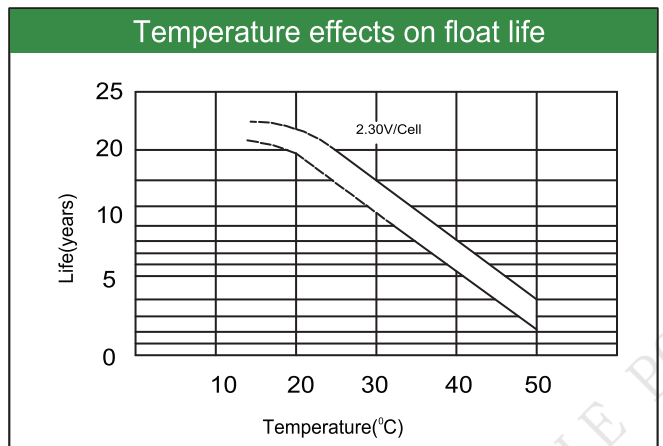
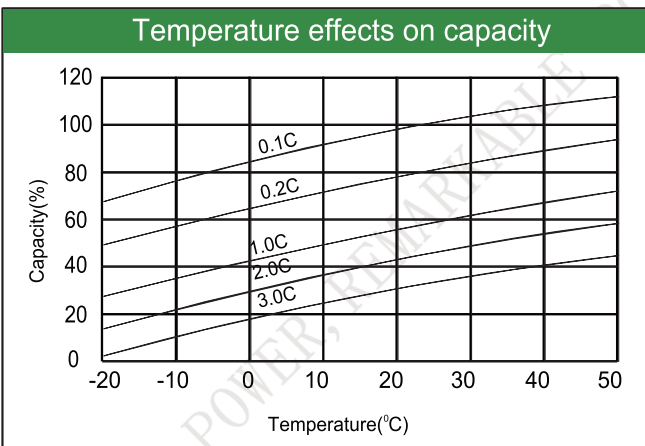
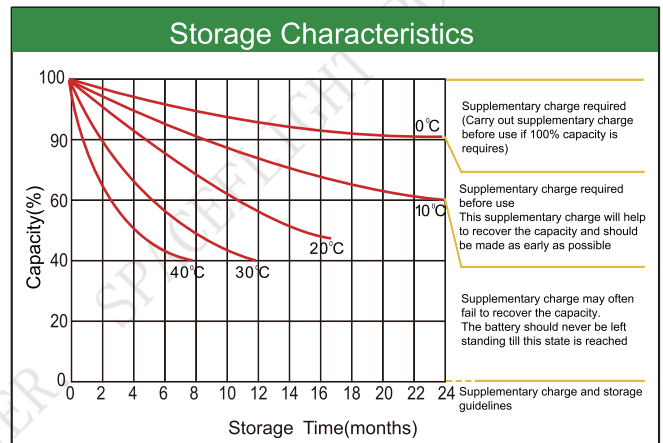
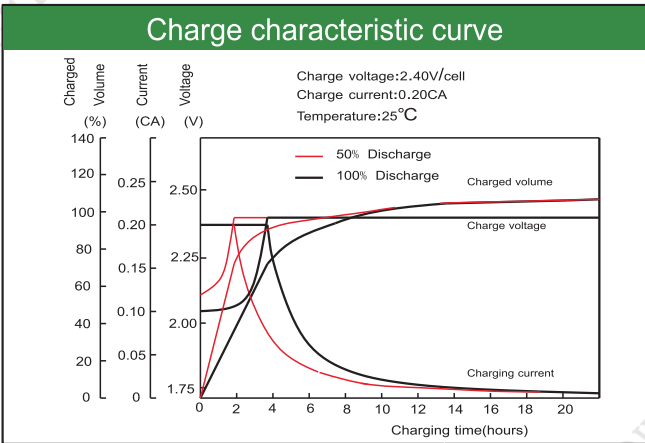
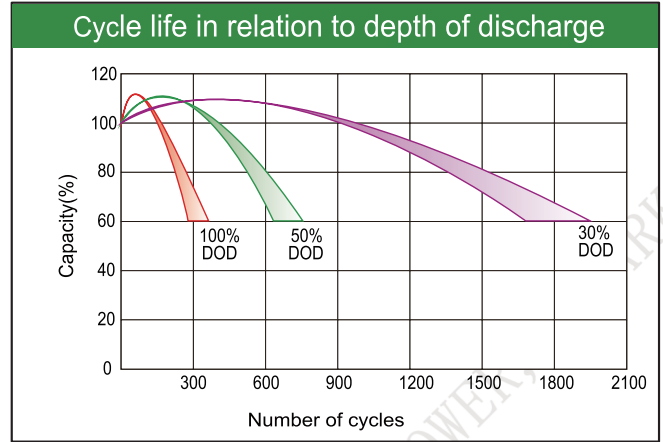
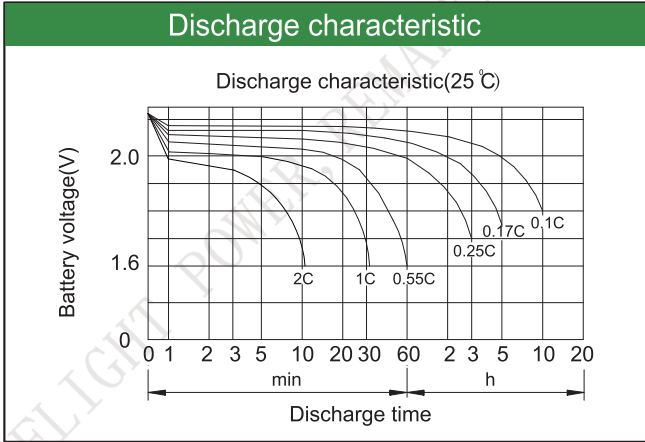
#### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	5134	4539	2979	2158	1850	825	580	319
1.65V	/	4867	4320	2848	2070	1791	800	562	315
1.70V	/	4593	4093	2709	1978	1725	770	550	310
1.75V	/	4303	3862	2568	1882	1674	741	535	305
1.80V	/	4017	3631	2423	1749	1594	707	525	300

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	8343	7507	4881	3518	3048	2036	1346	951
1.65V	/	8197	7257	4749	3457	2998	2014	1335	941
1.70V	/	7934	7057	4680	3423	2981	1941	1319	926
1.75V	/	7633	6875	4545	3331	2957	1857	1308	922
1.80V	/	7344	6679	4458	3206	2933	1768	1301	903

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



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