

### 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

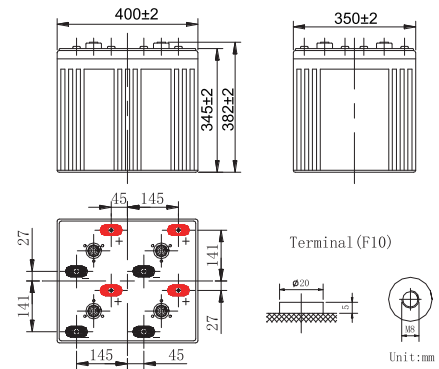
#### Specifications

Rated Voltage	2V	
Nominal Capacity	1500Ah	(C <sub>10</sub> , 1.8V)
Approx Weight	98kg±3%(216.05lbs)	
Terminal	F10	
Rated Capacity(25°C)	1500 Ah	(10hr, 150A, 1.80V)
	1340 Ah	(5hr, 268A, 1.75V)
	1134 Ah	(3hr, 378A, 1.70V)
	920 Ah	(1hr, 920A, 1.60V)
Max. Discharge Current	7500A(5s)	
Max. Charge Current	375A	
Internal Resistance(25°C)	Approx 0.55mΩ	
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 375A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 375A. 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	400±2mm (15.75 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

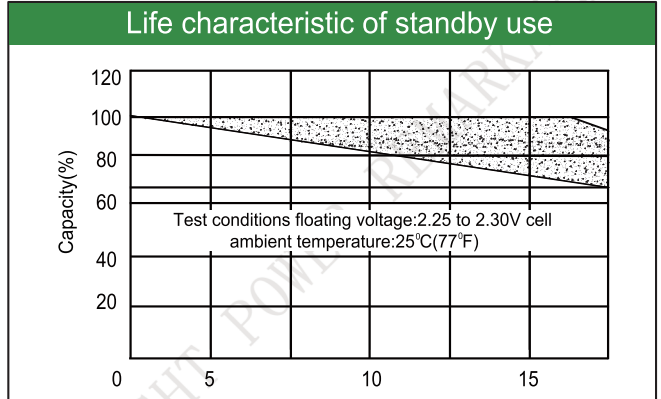
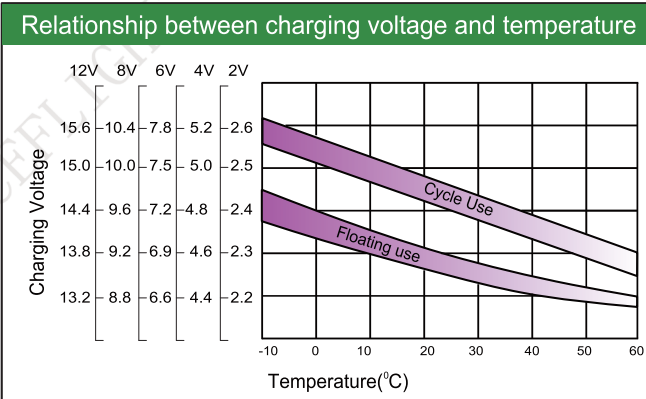
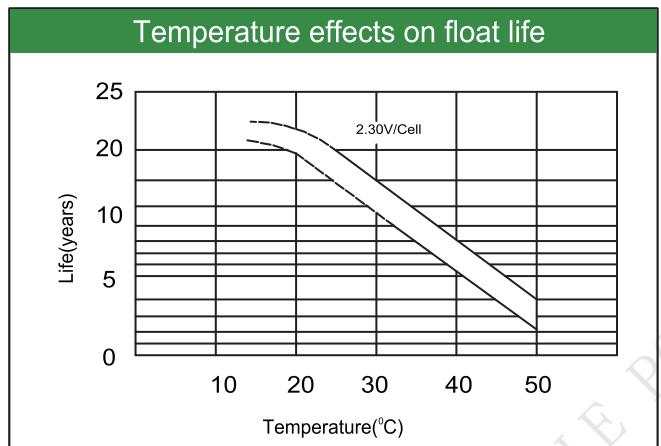
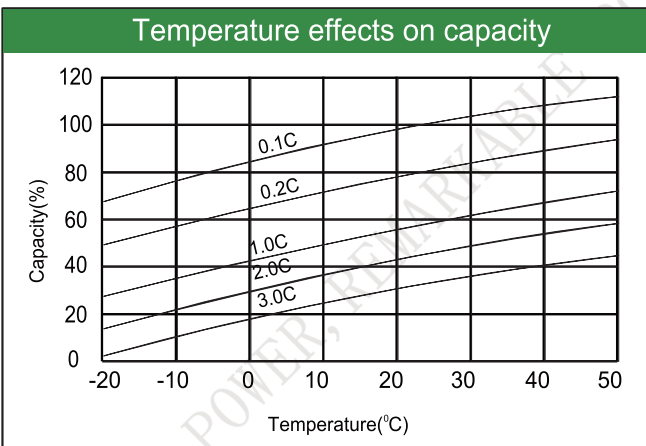
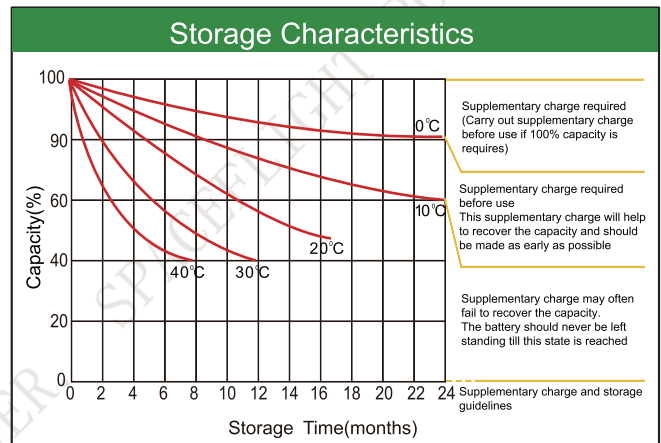
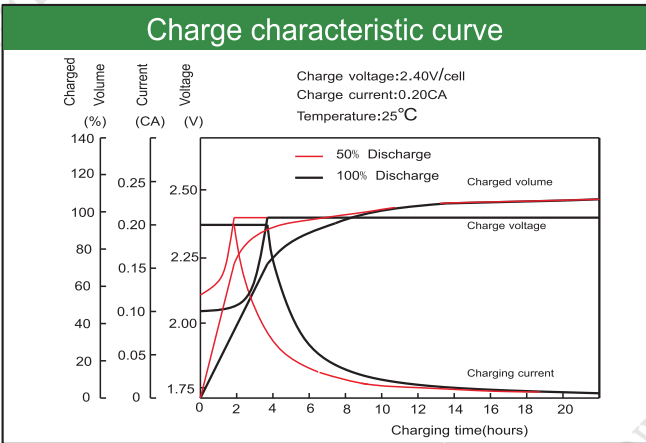
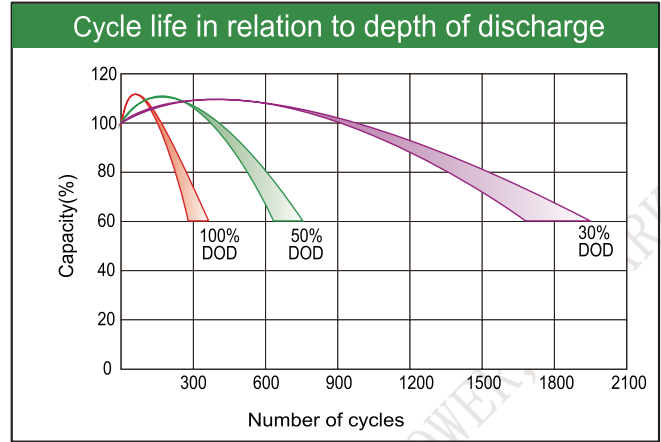
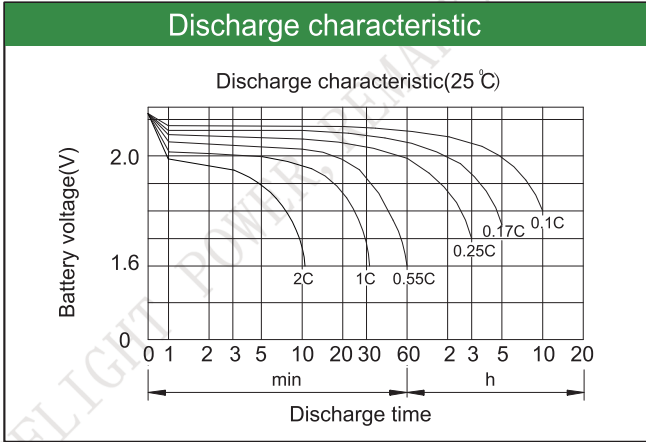
#### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	/	2567	2270	1489	1079	920	398	286	160
1.65V	/	2433	2159	1424	1035	896	388	280	157
1.70V	/	2296	2046	1354	989	863	378	274	155
1.75V	/	2151	1931	1284	941	837	367	268	152
1.80V	/	2009	1815	1212	875	797	355	260	150

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	4172	3753	2441	1759	1524	1018	673	475
1.65V	/	4098	3628	2374	1728	1499	1007	668	471
1.70V	/	3967	3529	2340	1711	1491	970	660	463
1.75V	/	3816	3437	2272	1665	1479	929	654	461
1.80V	/	3672	3339	2229	1603	1467	884	651	451

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



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