

### HTF Series General Battery

HTF series battery is Front Terminal Battery features integrated carrying handles and front access terminal connection which easily install and service in 19-inch and 23-inch battery cabinets, the batteries are based on AGM technology, an ideal backup for industrial, utility, and telecommunications applications.

### Applications

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

### General Features

- 12 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

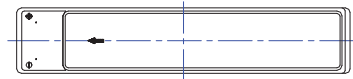
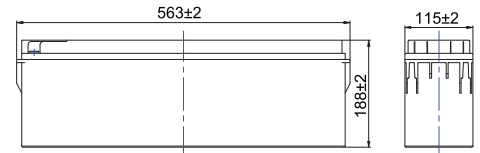
### Specifications

Rated Voltage	12V	
Nominal Capacity	80Ah	(C <sub>10</sub> , 10.8V)
Approx Weight	27.4kg±3%(60.4lbs)	
Terminal	F12	
Rated Capacity(25°C)	87 Ah	(20hr,4.35A,10.5V)
	80 Ah	(10hr,8A,10.8V)
	71 Ah	(5hr,14.2A,10.5V)
	54 Ah	(1hr,54A,9.6V)
Max.Discharge Current	800A(5s)	
Max.Charge Current	20A	
Internal Resistance(25°C)	Approx 5mΩ	
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 20A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 20A. 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%

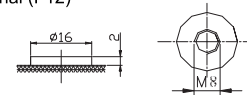


### Dimensions

unit:mm



Terminal (F12)



Unit:mm

Length	563±2mm (22.2 inches)
Width	115±2mm (4.53 inches)
Container Height	188±2mm (7.40 inches)
Total Height	188±2mm (7.40 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

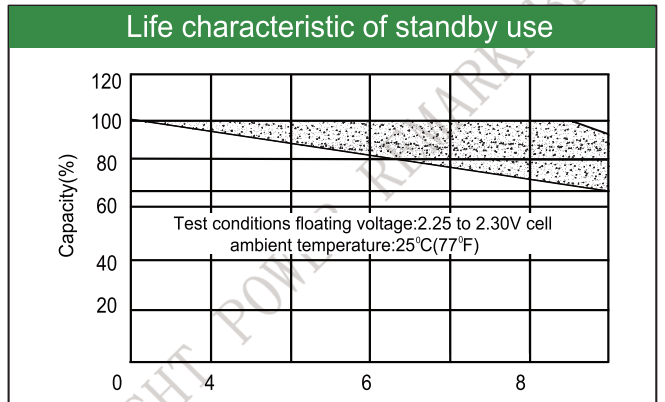
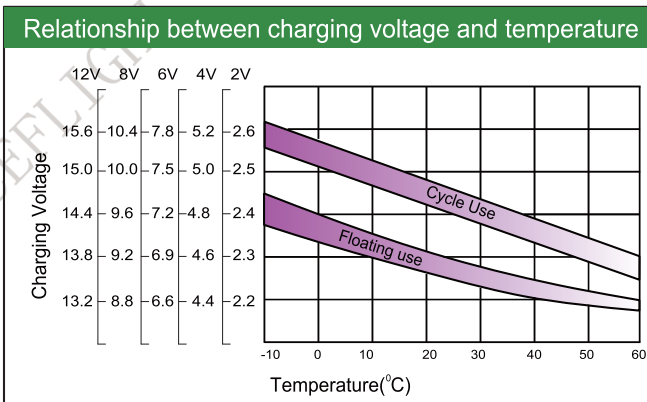
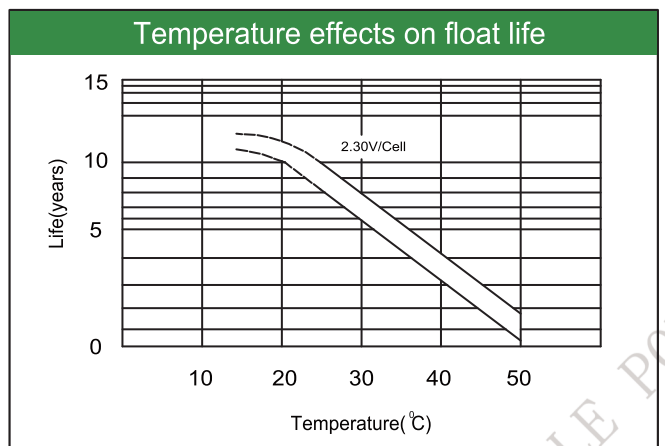
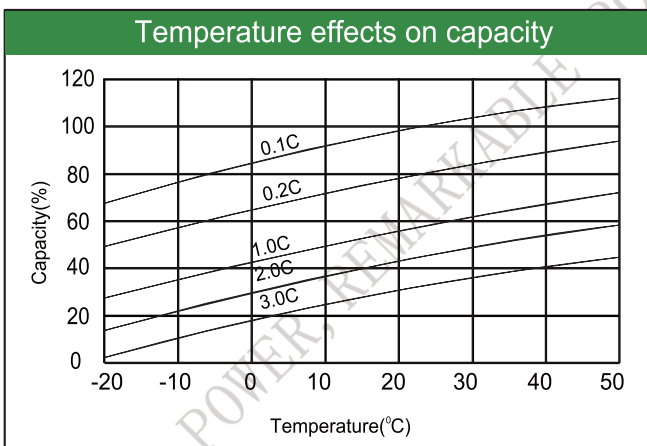
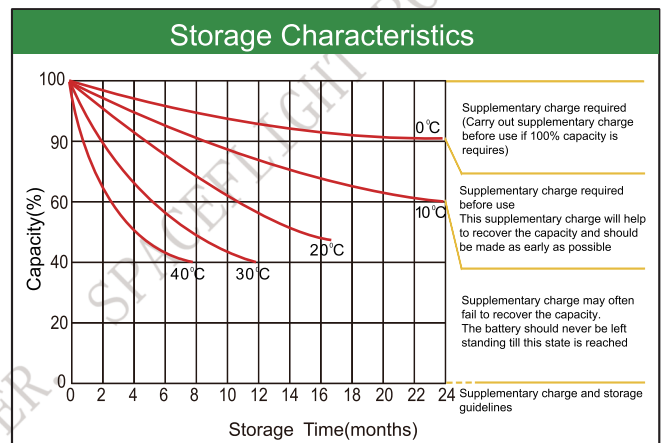
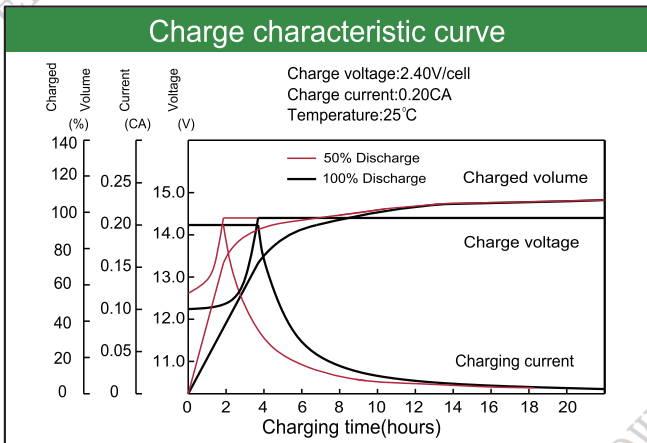
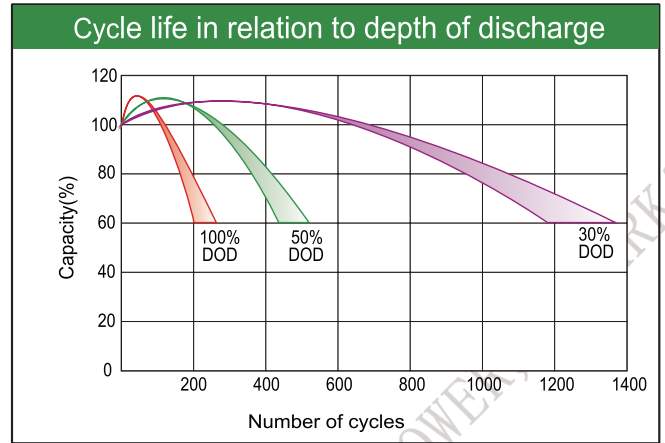
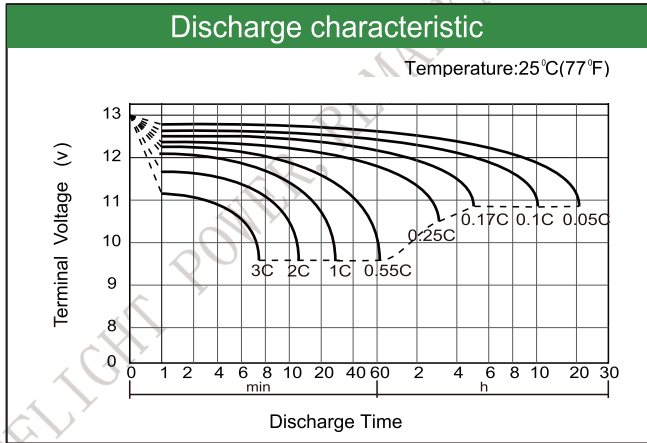
### Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	200	157	97.0	70.0	54.0	22.5	15.1	8.25	4.40
1.65V	188	146	93.8	67.7	52.9	22.0	14.8	8.2	4.40
1.70V	175	138	90.6	65.3	51.8	21.5	14.5	8.15	4.35
1.75V	163	130	87.3	62.8	50.6	20.9	14.2	8.1	4.35
1.80V	151	123	83.9	60.2	49.3	20.3	13.8	8.0	4.30

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	338	266	165	120	92.9	39.1	26.8	15.9	8.69
1.65V	321	251	162	117	92.2	38.7	26.6	15.7	8.53
1.70V	303	240	158	115	91.4	38.3	26.4	15.6	8.40
1.75V	289	232	156	113	91.5	38.2	26.5	15.5	8.36
1.80V	268	219	150	108	89.2	37.1	25.7	15.4	8.32

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



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