

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

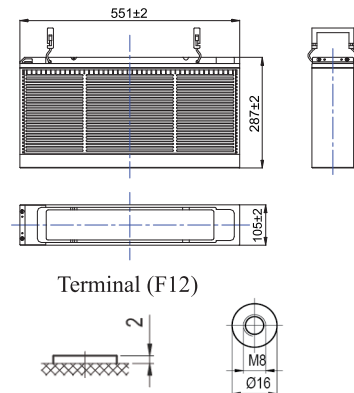
Specifications

Rated Voltage	12V	
Nominal Capacity	150Ah	(C ₁₀ , 10.8V)
Approx Weight	45kg±3%(99.2lbs)	
Terminal	F12	
Rated Capacity(25°C)	158 Ah	(20hr,7.9A,10.5V)
	150 Ah	(10hr,15A,10.8V)
	140 Ah	(5hr,28A,10.5V)
	108 Ah	(1hr,108A,9.6V)
Max.Discharge Current	1500A(5s)	
Max.Charge Current	37.5A	
Internal Resistance(25°C)	Approx 4mΩ	
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 37.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 37.5A. 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



Length	551±2mm (21.7 inches)
Width	105±2mm (4.13 inches)
Container Height	287±2mm (11.3 inches)
Total Height	287±2mm (11.3 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

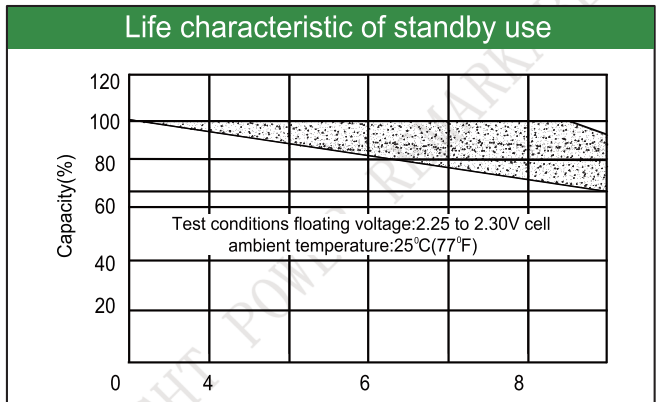
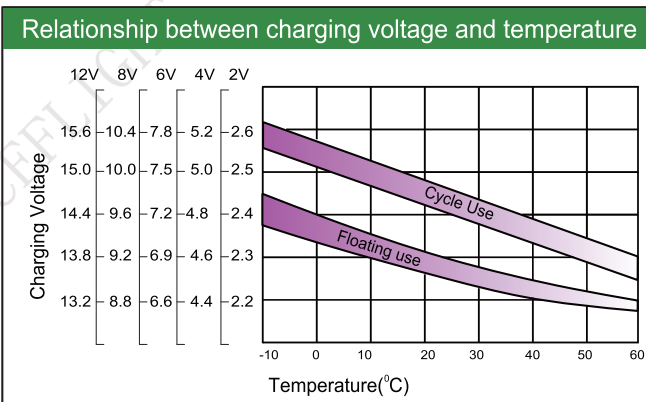
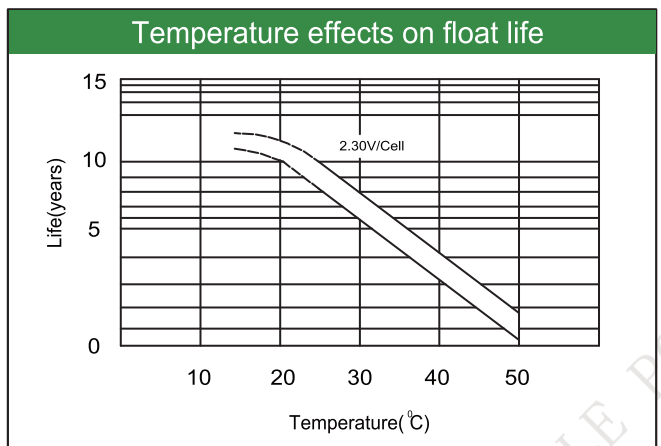
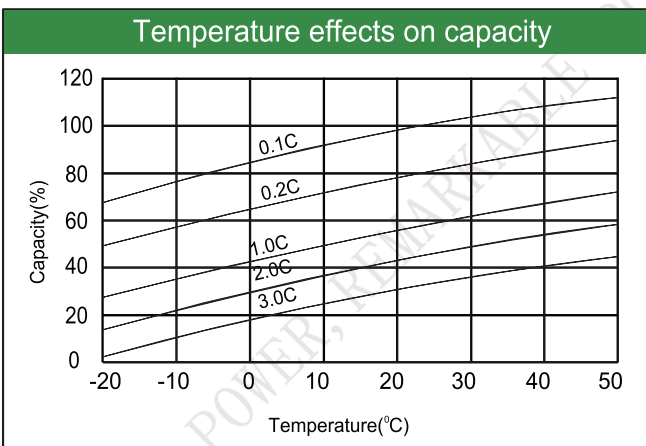
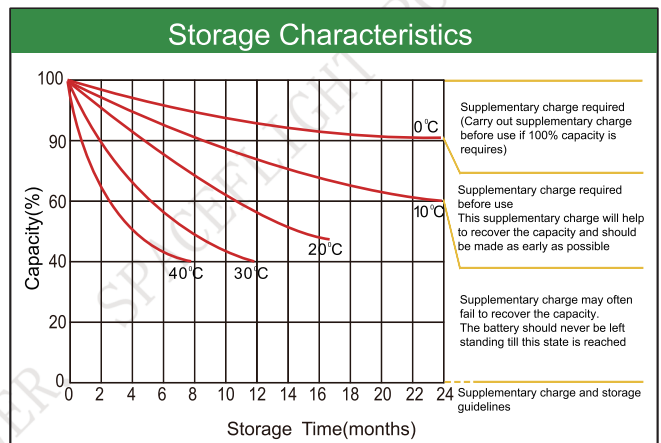
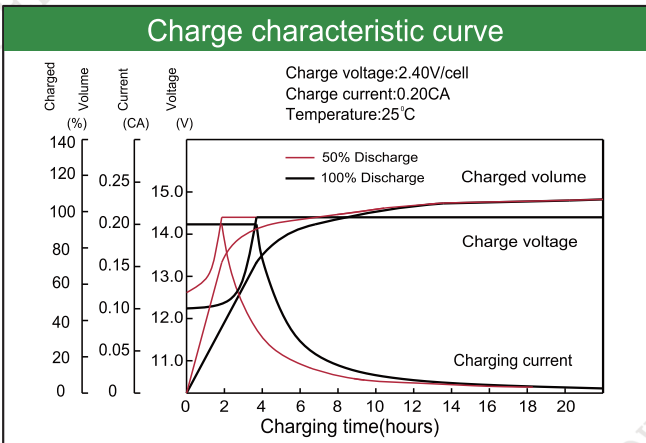
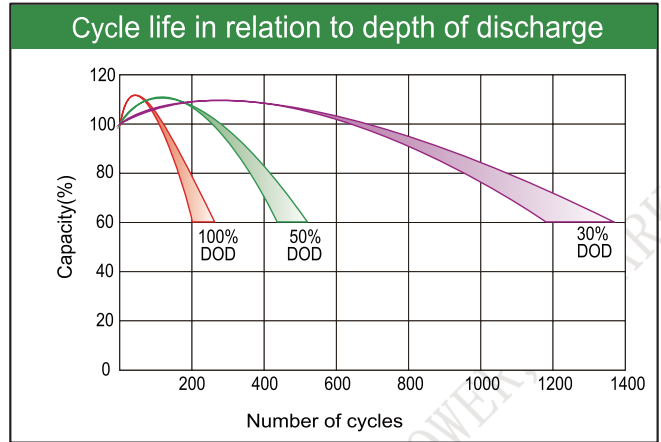
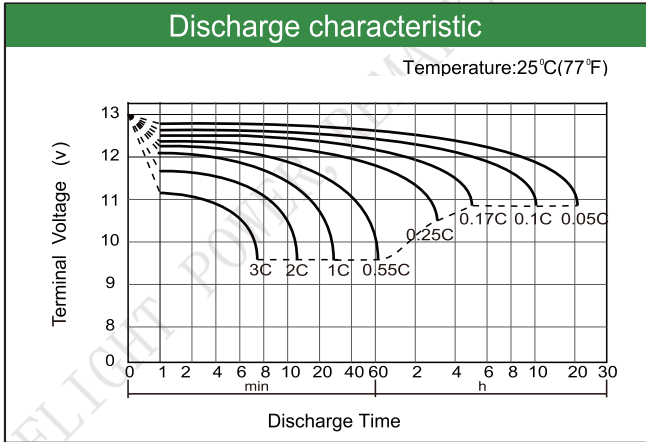
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	375	268	175	134	108	45.6	28.5	15.4	8.00
1.65V	360	260	170	131	106	45.0	28.4	15.4	8.00
1.70V	342	250	164	126	103	44.0	28.2	15.3	7.95
1.75V	322	238	158	121	100	43.0	28.0	15.2	7.90
1.80V	299	223	150	115	96	41.7	27.7	15.0	7.80

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	634	456	299	230	186	79.4	53.0	30.2	15.76
1.65V	615	447	293	227	185	79.2	52.2	29.8	15.48
1.70V	594	437	288	222	182	78.7	51.5	29.4	15.34
1.75V	571	424	283	218	181	78.5	51.0	29.1	15.20
1.80V	544	408	276	212	178	78.2	50.6	28.8	15.12

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



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