

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

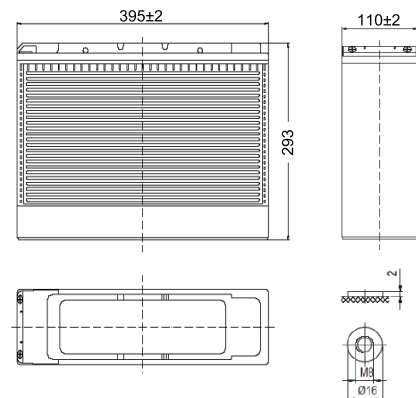
Specifications

Rated Voltage	12V	
Nominal Capacity	105Ah	(C ₁₀ , 10.8V)
Approx Weight	31.5kg±3%(69.45lbs)	
Terminal	F12	
Rated Capacity(25°C)	121.8 Ah	(20hr,6.09A,10.5V)
	105 Ah	(10hr,10.5A,10.8V)
	95 Ah	(5hr,19A,10.5V)
	71 Ah	(1hr,71A,9.6V)
Max.Discharge Current	1050A(5s)	
Max.Charge Current	26.25A	
Internal Resistance(25°C)	Approx 6mΩ	
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 26.25A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 26.25A. 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	395±2mm (15.6 inches)
Width	110±2mm (4.33 inches)
Container Height	286±2mm (11.3 inches)
Total Height	293±2mm (11.6 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

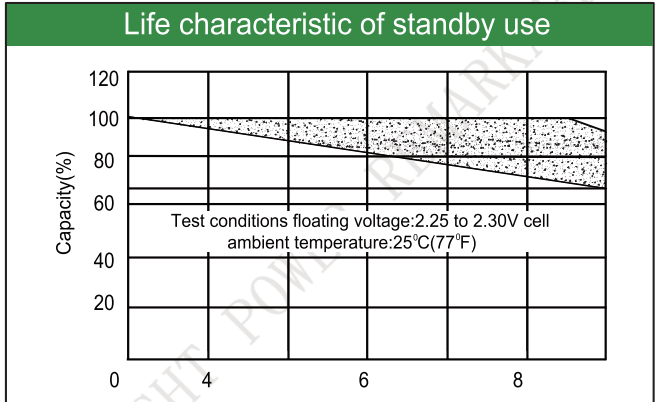
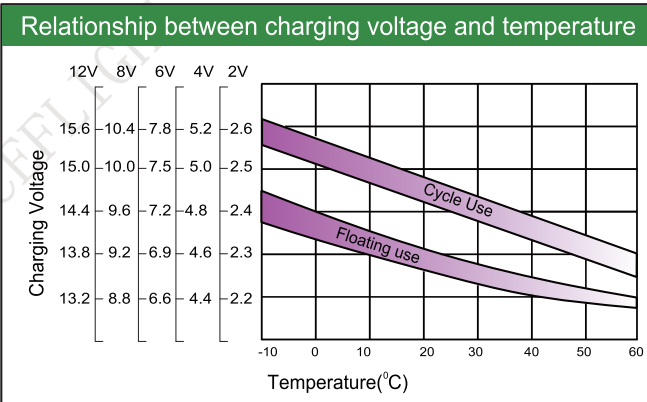
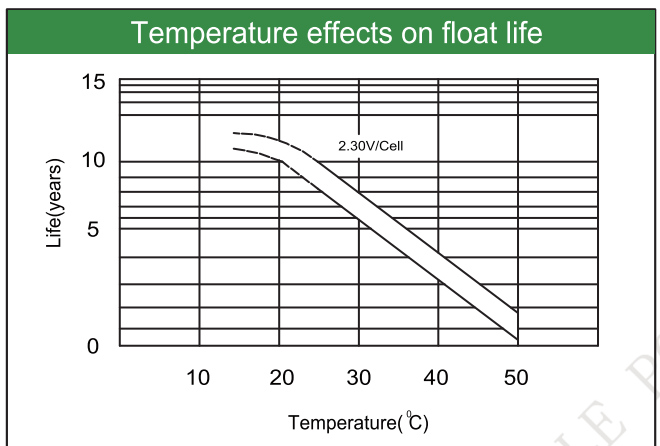
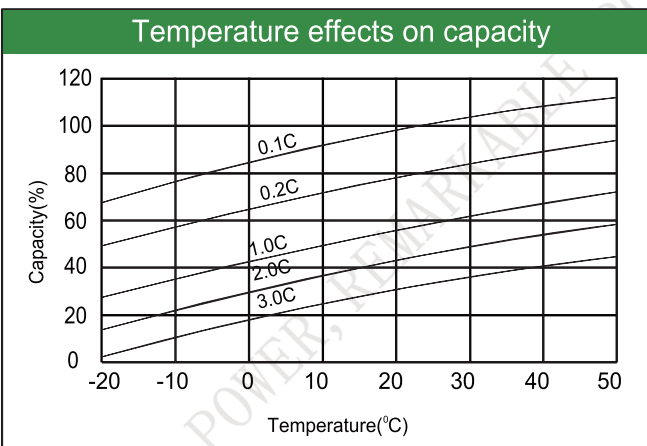
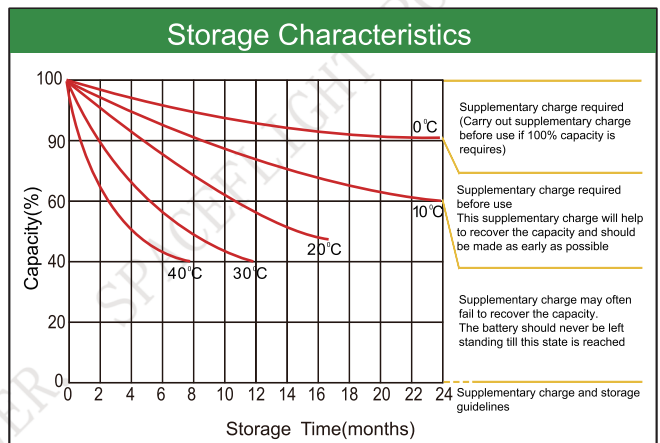
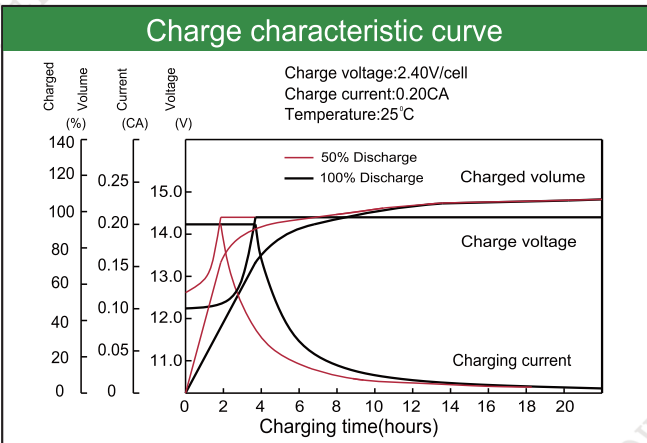
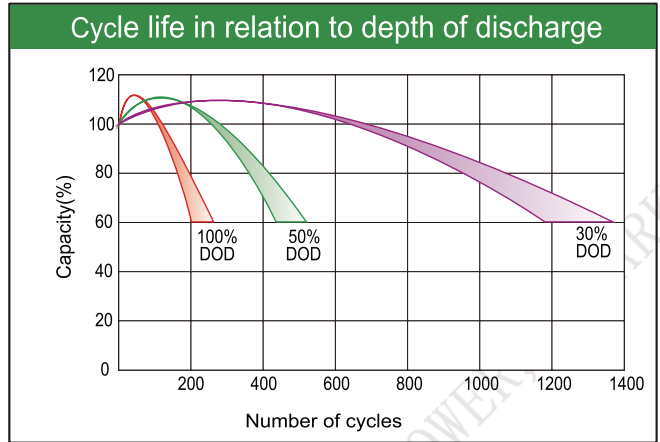
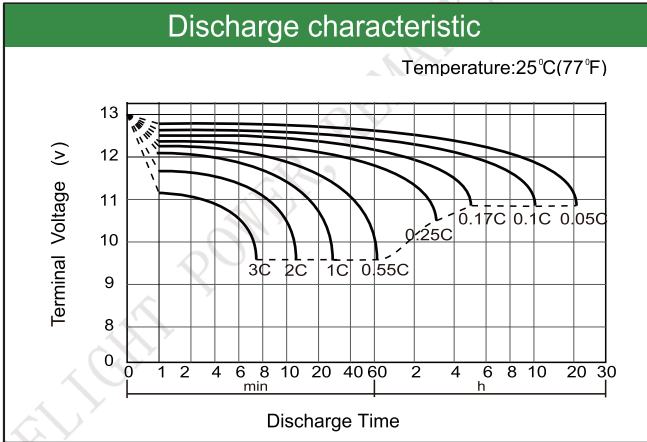
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	229	185	120	91	71	30.9	19.3	10.7	6.25
1.65V	212	174	116	88	69.5	30.5	19.2	10.7	6.20
1.70V	195	162	111	85.2	68	30.0	19.1	10.6	6.14
1.75V	178	151	107	82.2	66.5	29.5	19.0	10.6	6.09
1.80V	161	139	103	79.3	64.5	28.5	18.7	10.5	5.99

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	387	314	205	156	122	53.9	35.7	21.1	12.1
1.65V	362	299	200	152	121	53.8	35.4	20.8	11.94
1.70V	339	283	195	150	121	53.8	34.9	20.4	11.85
1.75V	316	269	192	148	120	53.6	34.4	20.2	11.81
1.80V	293	254	189	146	119	53.3	34.3	20.0	11.78

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



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