

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

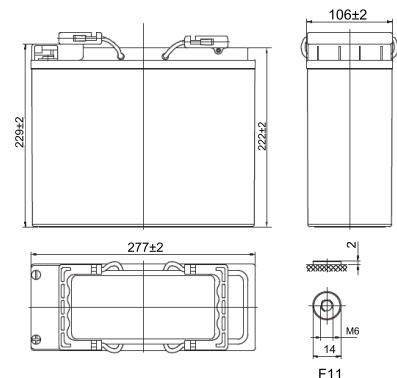
Specifications

Rated Voltage	12V	
Nominal Capacity	50Ah	(C ₁₀ , 10.8V)
Approx Weight	16.5kg±3%(36.4lbs)	
Terminal	F11	
Rated Capacity(25°C)	56 Ah	(20hr, 2.8A, 10.5V)
	50 Ah	(10hr, 5A, 10.8V)
	45.3 Ah	(5hr, 9.06A, 10.5V)
	35.2 Ah	(1hr, 35.2A, 9.6V)
Max. Discharge Current	500A(5s)	
Max. Charge Current	12.5A	
Internal Resistance(25°C)	Approx 8mΩ	
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 12.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 12.5A. 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	277±2mm (10.9 inches)
Width	106±2mm (4.17 inches)
Container Height	222±2mm (8.7 inches)
Total Height	229±2mm (9.02 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

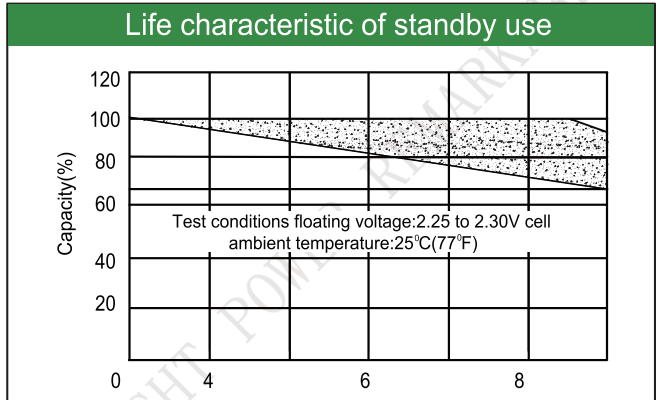
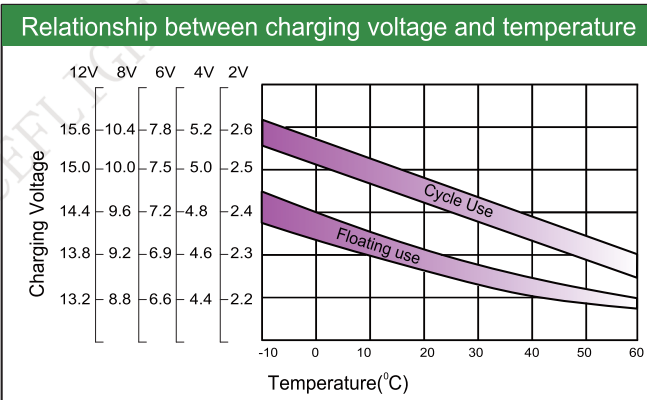
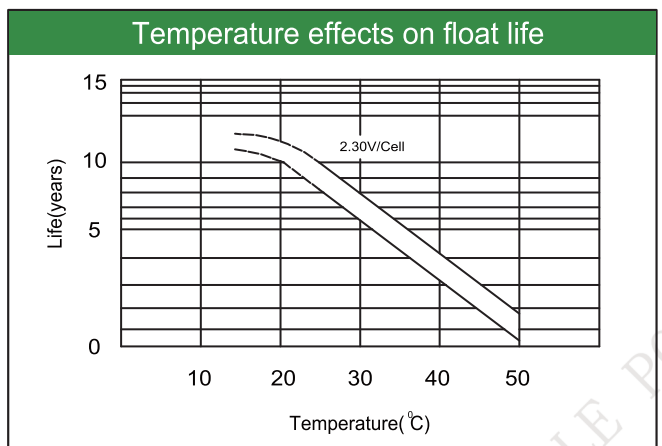
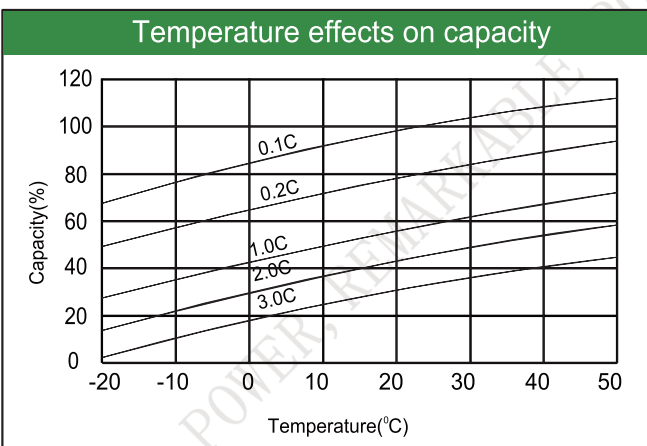
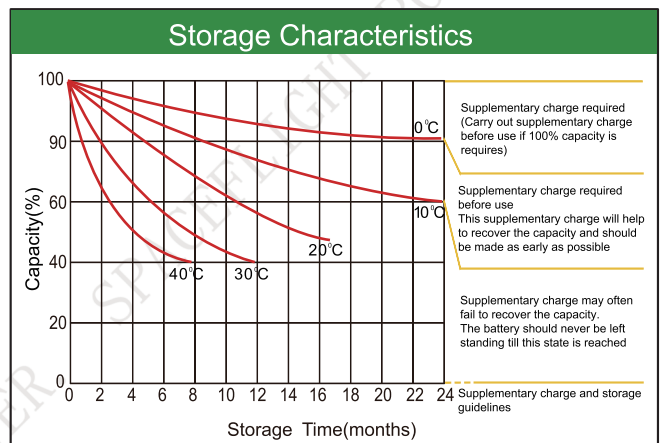
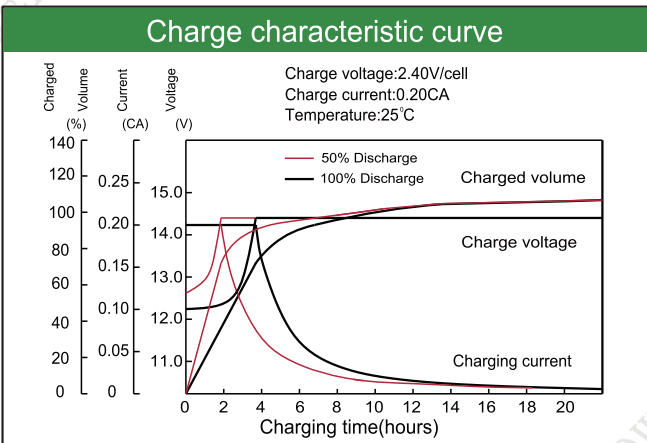
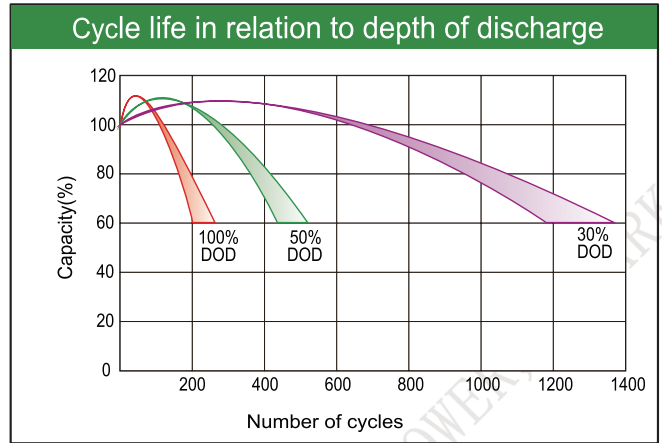
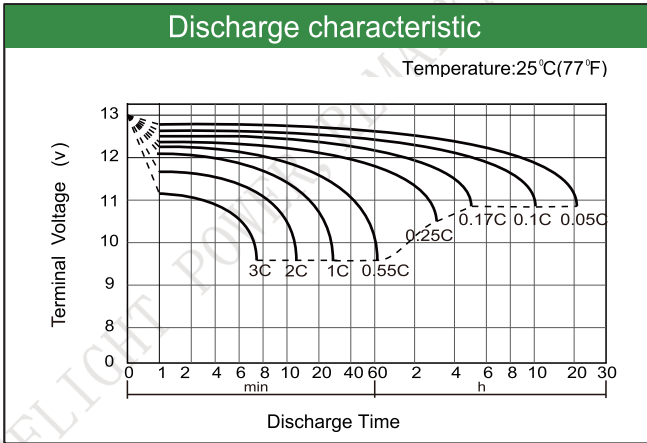
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	115	93.6	57.6	44.0	35.2	14.5	9.26	5.23	2.90
1.65V	108	86.4	55.5	42.7	34.5	14.3	9.19	5.2	2.90
1.70V	99	81.7	53.3	41.4	33.8	14.1	9.13	5.15	2.85
1.75V	93	76.9	51.2	40.1	33.1	13.8	9.06	5.1	2.80
1.80V	87	73.2	49.0	38.8	32.4	13.6	9.0	5.0	2.70

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	195	159	98.5	75.6	69.0	28.5	18.5	10.1	5.50
1.65V	184	148	95.4	73.8	67.1	28.2	18.4	10.0	5.49
1.70V	172	143	93.5	73.0	65.3	28.0	18.2	9.9	5.48
1.75V	165	137	91.6	72.1	63.5	27.7	18.1	9.8	5.48
1.80V	159	134	90.3	71.9	61.7	27.5	17.9	9.8	5.45

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



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