

HT Series General Battery

Spaceflight HT Series VRLA batteries are designed with AGM technology, high performance plates and technology to give extra power output for common power backup system. HT series batteries are the general purpose with 5-8 years floating design life at 25°C

Applications

- Uninterruptible Power Supply (UPS)
- Emergency backup power supply
- Auto control system
- Communication power supply
- Alarm and security system
- Electric Power System (EPS)

General Features

- 10-12 years design 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

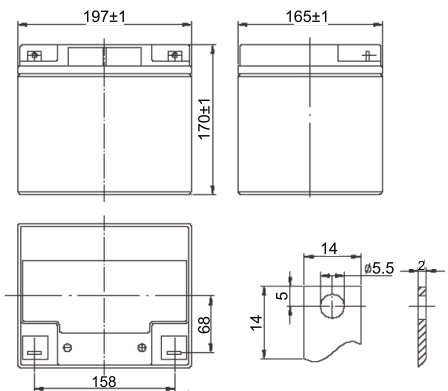
Specifications

Rated Voltage	12V	
Nominal Capacity	42Ah	(C ₁₀ , 10.8V)
Approx Weight	12.8kg±3%(28.22lbs)	
Terminal	F11(F4)	
Rated Capacity(25°C)	45.6 Ah	(20hr,2.28A,10.5V)
	42 Ah	(10hr,4.2A,10.8V)
	35.7 Ah	(5hr,7.14A,10.5V)
	26.3 Ah	(1hr,26.3A,9.6V)
Max.Discharge Current	420A(5s)	
Max.Charge Current	10.5A	
Internal Resistance(25°C)	Approx 9mΩ	
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 10.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 10.5A. 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	197±2mm (7.76 inches)
Width	165±2mm (6.5 inches)
Container Height	170±2mm (6.69 inches)
Total Height	170±2mm (6.69 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

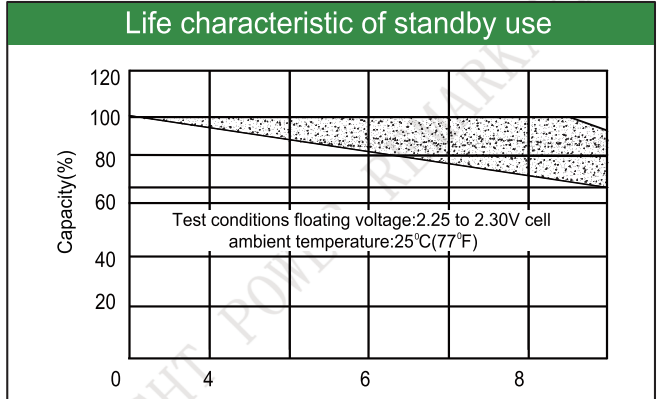
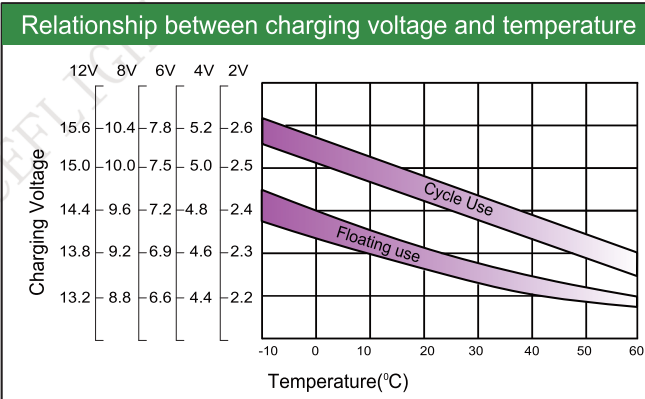
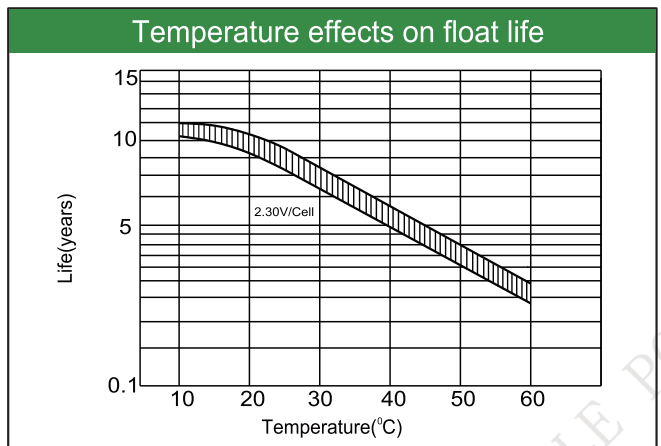
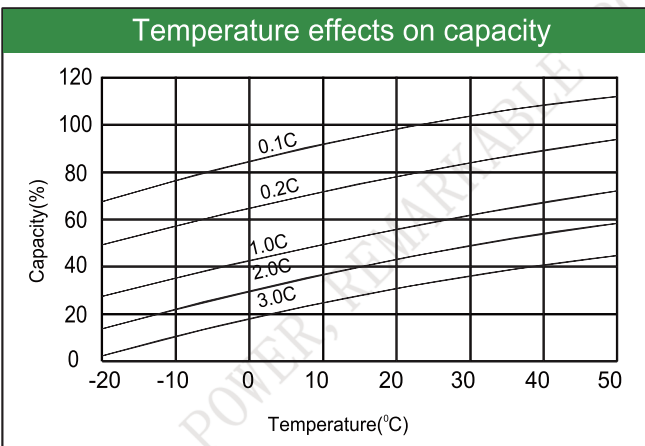
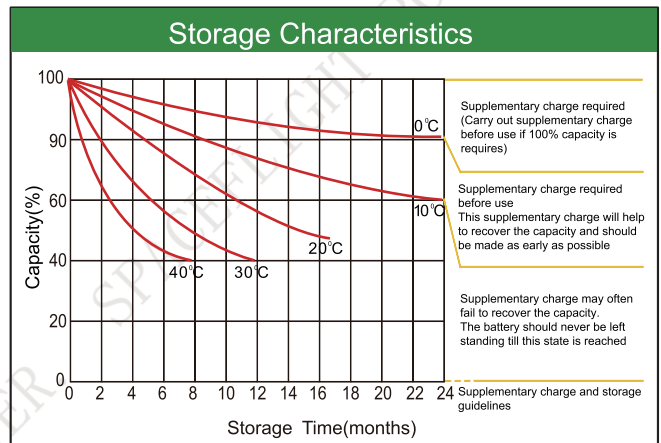
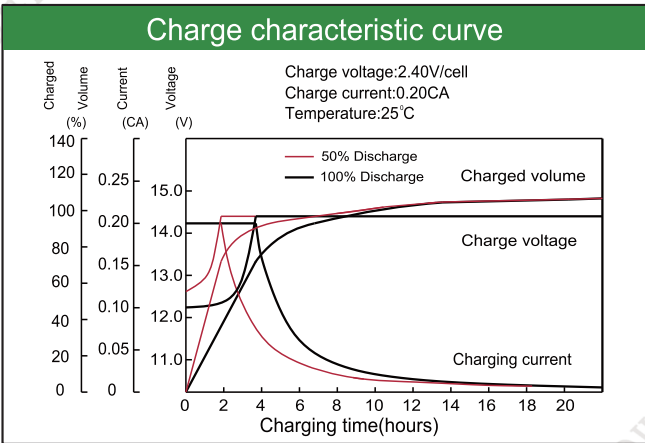
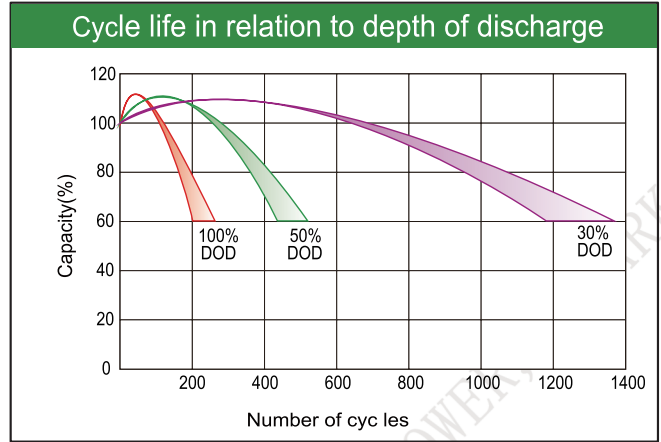
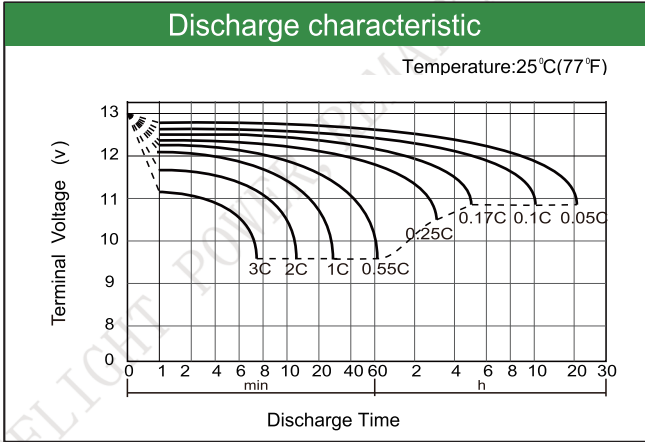
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	136	96.6	75.6	44.1	26.3	10.7	7.35	4.35	2.33
1.65V	129	91.8	72.8	42.7	25.4	10.6	7.25	4.32	2.32
1.70V	124	86.8	69.8	41.1	24.5	10.5	7.19	4.29	2.30
1.75V	114	82.0	66.4	39.1	23.2	10.3	7.14	4.29	2.28
1.80V	105	74.5	60.9	36.6	21.8	10.2	7.09	4.20	2.25

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	250	177	135	85.0	63.2	51.1	31.8	22.3	15.0
1.65V	235	168	128	80.2	60.3	49.0	30.8	21.8	14.8
1.70V	219	158	122	77.3	57.2	47.0	29.8	21.2	14.5
1.75V	204	148	115	73.4	50.2	44.8	28.6	20.5	14.1
1.80V	189	138	108	69.5	47.3	42.5	27.5	19.7	13.8

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



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