

HTG Series Battery

SPACEFLIGHT HTG Series Battery is hybrid GEL battery designed with deep cycle technology to give extra-durable cycle performance. HTG series battery with 12 years floating design life at 25°C.

Applications

- Solar and wind power systems
- Communication systems
- Uninterruptible power supplies
- Golf carts and buggies
- Alarm and security system
- Electric toy and wheelchairs, etc

General Features

- 12 years designed floating life(25 °C)
- Non-spillable construction
- Sealed and maintenance-free
- Excellent recovery from deep discharge
- High density active materials plates
- Longer Life and low self-discharge

Standards

- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

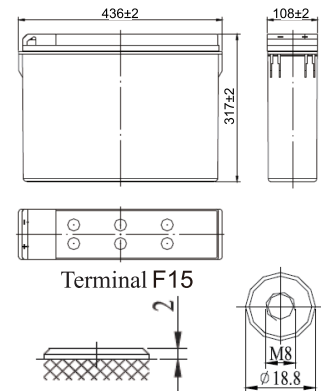
Specifications

Rated Voltage	12V	
Nominal Capacity	125Ah	(C ₁₀ , 10.8V)
Approx Weight	39.5kg±3%(87.1lbs)	
Terminal	F15	
Rated Capacity(25°C)	130 Ah	(20hr,6.5A,10.5V)
	125 Ah	(10hr,12.5A,10.8V)
	107 Ah	(5hr,21.3A,10.5V)
	77 Ah	(1hr,77A,9.6V)
Max.Discharge Current	1250A(5s)	
Max.Charge Current	31.3A	
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 31.3A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 31.3A. 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	436±2mm (17.2 inches)
Width	108±2mm (4.25 inches)
Container Height	317±2mm (12.5 inches)
Total Height	317±2mm (12.5 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	AGM	SiO ₂ +H ₂ SO ₄

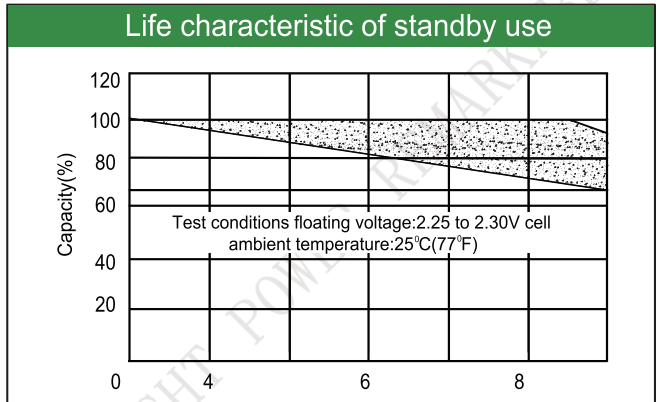
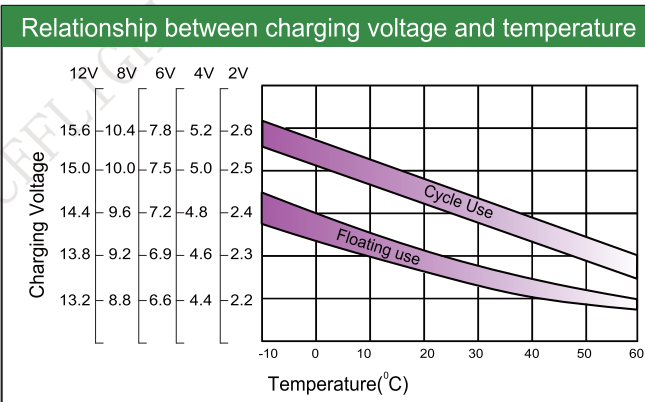
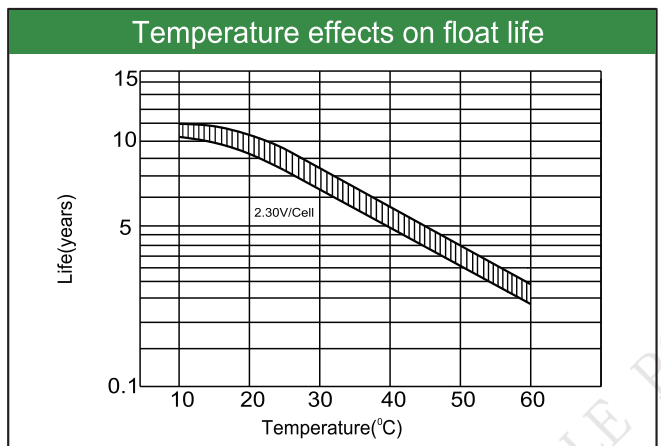
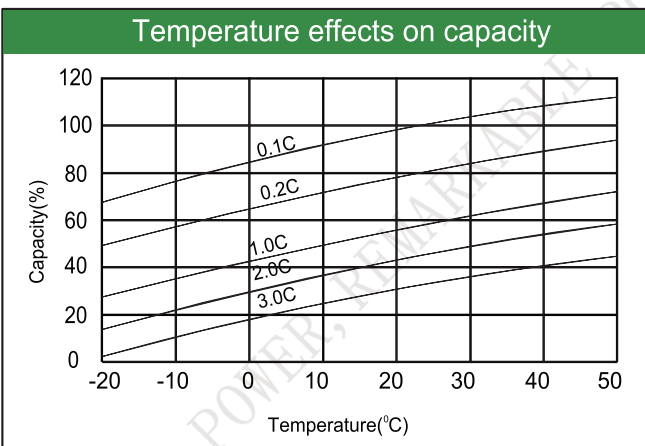
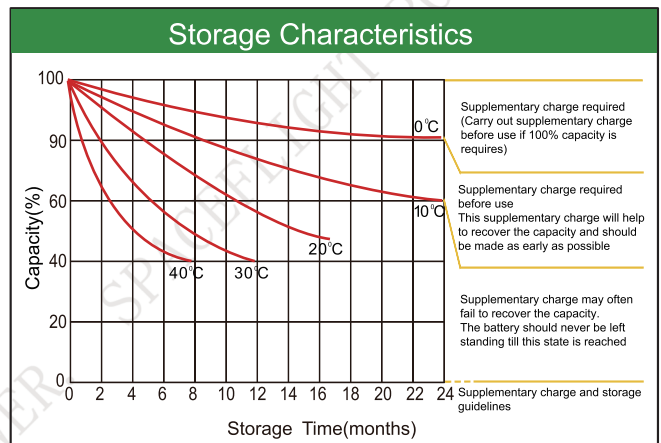
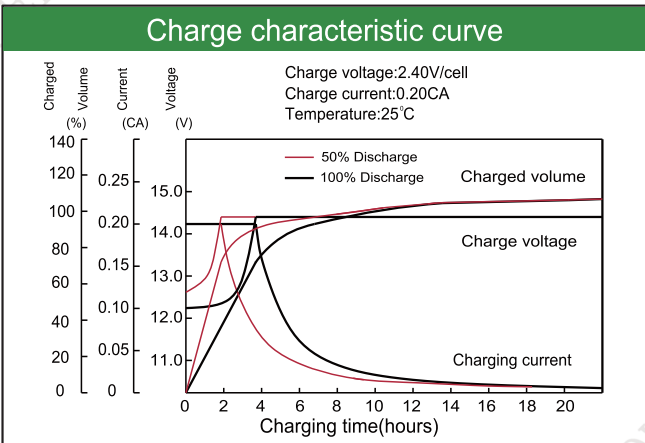
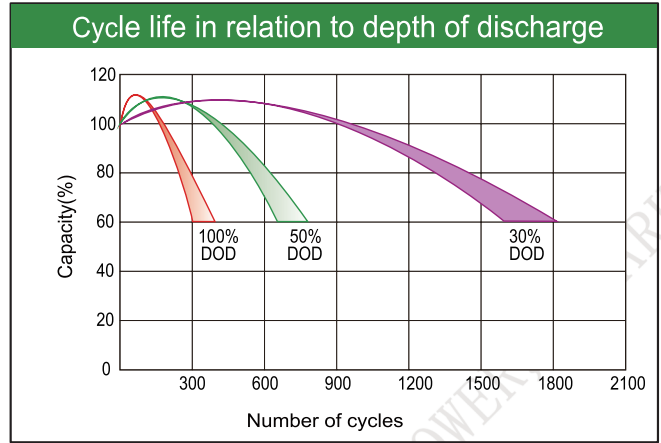
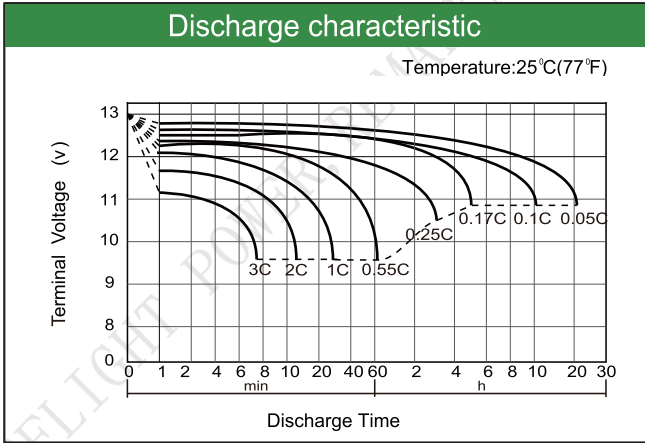
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	303	223	146	112	77.0	34.5	22.1	13.0	6.65
1.65V	291	217	142	110	74.8	33.4	21.8	12.9	6.60
1.70V	277	208	137	106	72.4	32.2	21.5	12.7	6.55
1.75V	260	198	132	102	69.8	31.0	21.3	12.6	6.50
1.80V	242	186	125	97	67.0	29.7	20.5	12.5	6.40

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

E.V/Time	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	512	379	249	192	133	60.0	40.1	25.1	12.93
1.65V	502	376	247	192	131	59.3	39.7	25.0	12.74
1.70V	487	368	243	189	130	58.3	39.5	24.7	12.64
1.75V	467	357	239	186	128	57.3	39.2	24.6	12.57
1.80V	439	339	229	179	124	55.5	39.1	24.3	12.54

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



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