

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

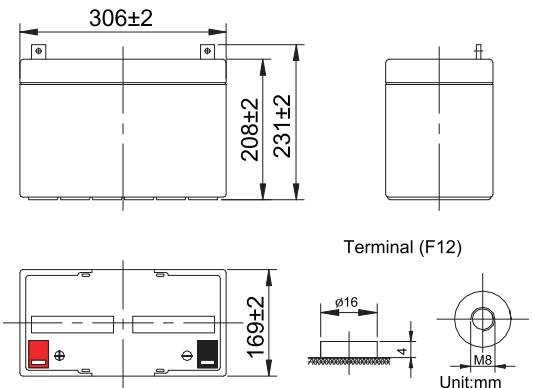
Specifications

Rated Voltage	12V	
Nominal Capacity	90Ah	(C ₁₀ , 10.8V)
Approx Weight	26kg±3%(57.4lbs)	
Terminal	F12	
Rated Capacity(25°C)	95 Ah	(20hr,4.75A,10.5V)
	90 Ah	(10hr,9A,10.8V)
	78 Ah	(5hr,16.2A,10.5V)
	61 Ah	(1hr,61A,9.6V)
Max.Discharge Current	900A(5s)	
Max.Charge Current	22.5A	
Internal Resistance(25°C)	Approx 7mΩ	
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 22.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 22.5A. 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	306±2mm (12.1 inches)
Width	169±2mm (6.65 inches)
Container Height	208±2mm (8.19 inches)
Total Height	212±2mm (8.35 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

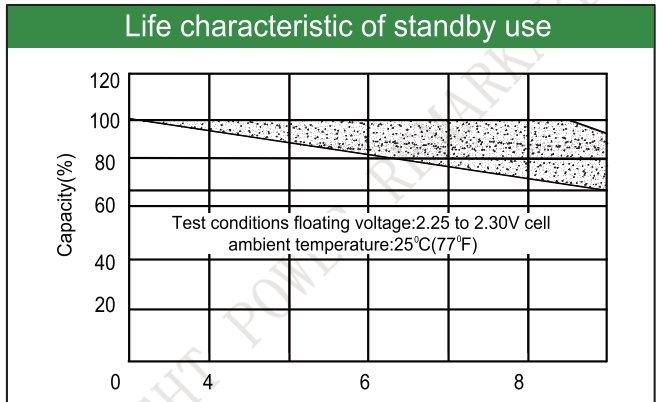
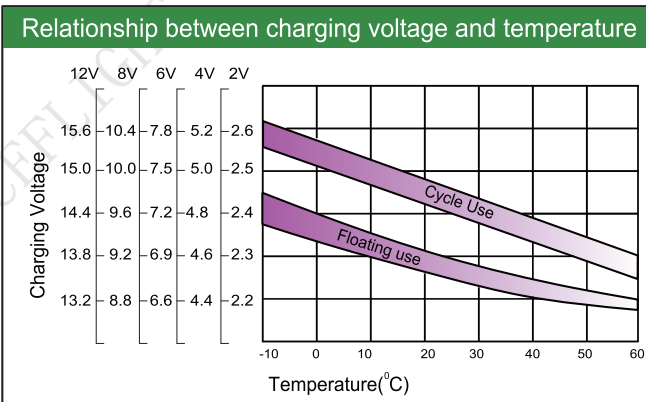
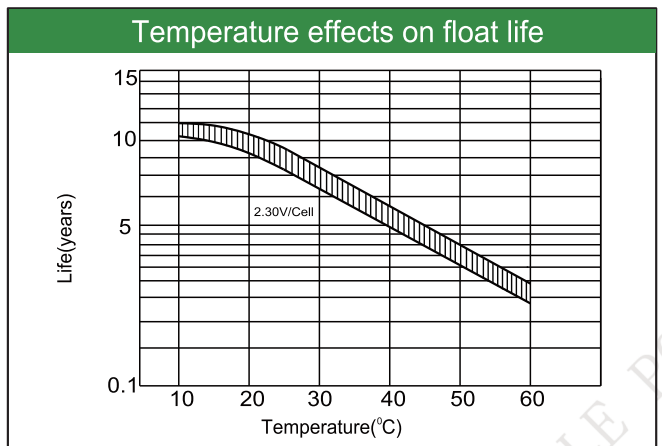
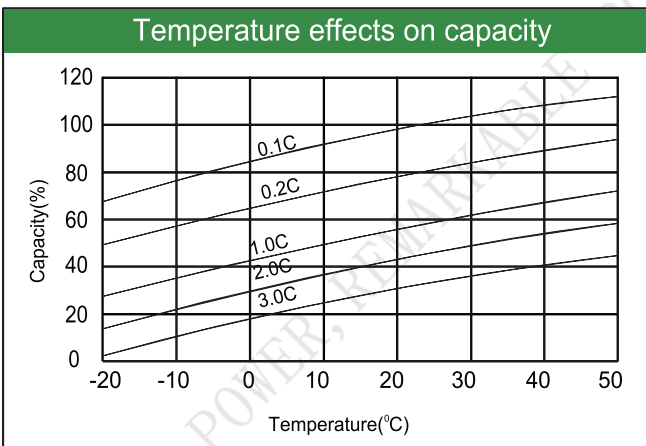
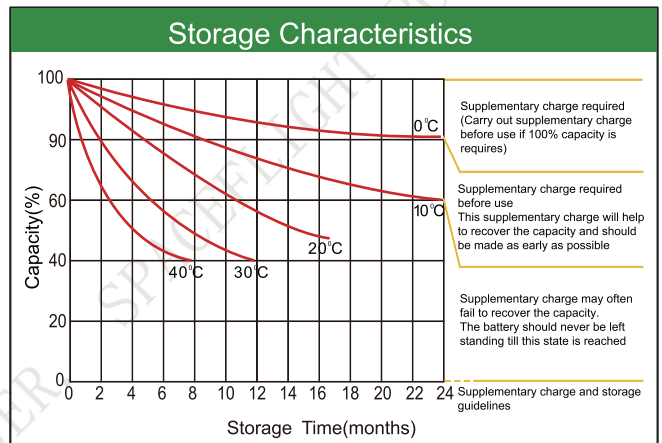
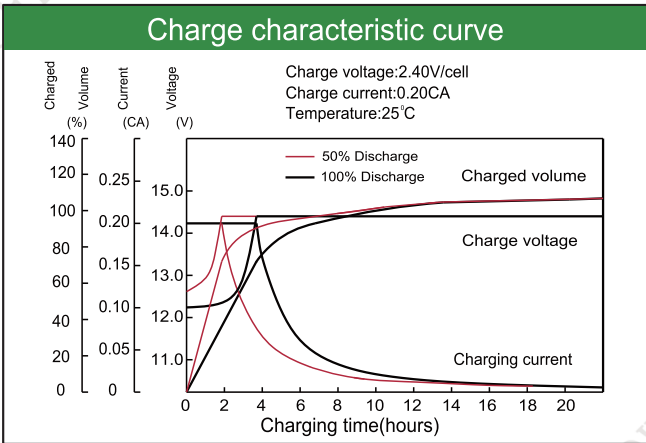
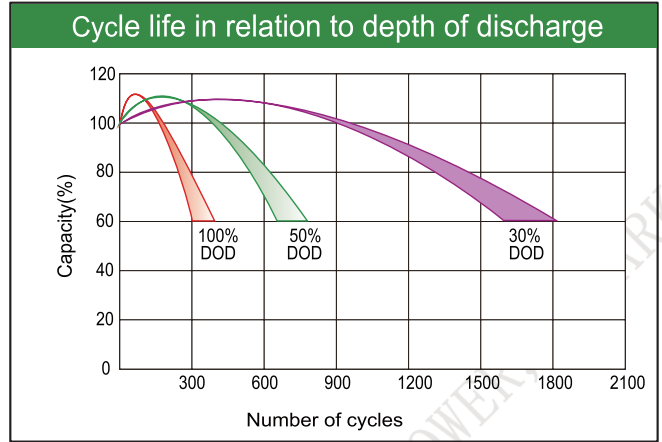
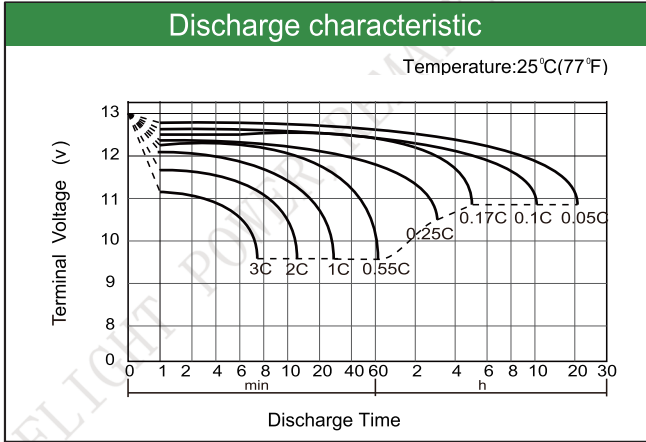
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	/	220	173	103	61.0	26.5	17.8	9.6	4.90
1.65V	/	209	165	98.8	58.6	25.7	17.3	9.5	4.85
1.70V	/	197	156	94.4	56.1	24.9	16.8	9.4	4.80
1.75V	/	184	147	89.8	53.5	24.0	16.2	9.2	4.75
1.80V	/	169	137	85.0	50.7	23.0	15.5	9.0	4.65

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	390	310	192.0	145.0	117.0	70.0	52.0	35.0
1.65V	/	373	298	186.5	141.3	113.9	68.0	50.5	34.1
1.70V	/	354	285	180.3	137.4	110.7	65.9	48.9	33.1
1.75V	/	334	271	173.6	133.3	107.4	63.8	47.3	32.0
1.80V	/	312	255	166.1	128.8	103.9	61.5	45.6	30.9

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



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