

HTD Series Battery

SPACEFLIGHT HTD series battery is Deep Cycle AGM battery designed with thicker plates with more high-density active materials which makes the battery can with stand repeated deep cyclic applications.

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

- 10 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

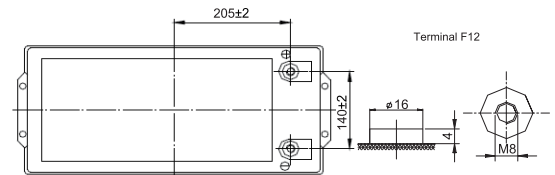
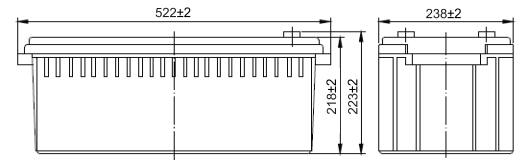
Specifications

Rated Voltage	12V	
Nominal Capacity	180Ah	(C ₁₀ , 10.8V)
Approx Weight	55.5kg±3%(122.3lbs)	
Terminal	F12	
Rated Capacity(25°C)	188 Ah	(20hr,9.4A,10.5V)
	180 Ah	(10hr,18A,10.8V)
	160 Ah	(5hr,32A,10.5V)
	115 Ah	(1hr,115A,9.6V)
Max.Discharge Current	1800A(5s)	
Max.Charge Current	45A	
Internal Resistance(25°C)	Approx 4mΩ	
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 45A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 45A. 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	522±2mm (20.55 inches)
Width	238±2mm (9.37inches)
Container Height	218±2mm (8.58inches)
Total Height	222±2mm (8.74 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

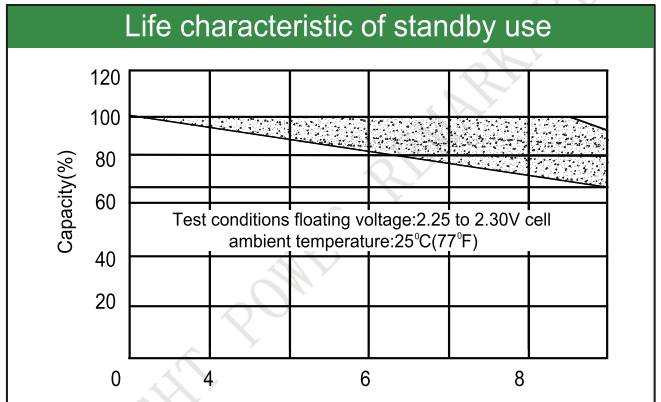
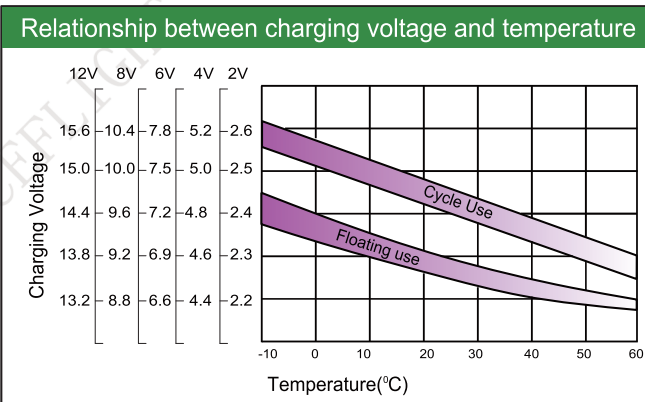
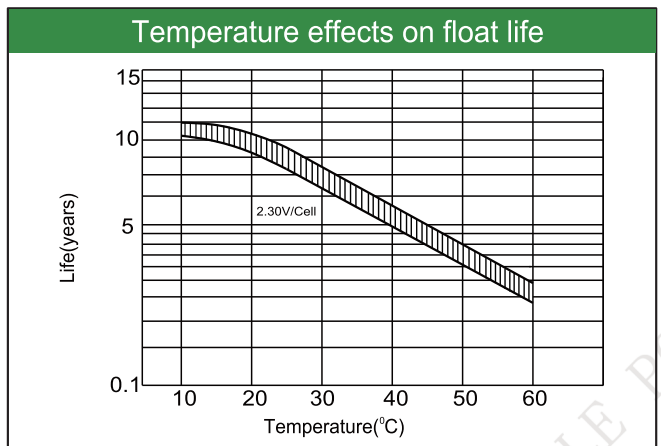
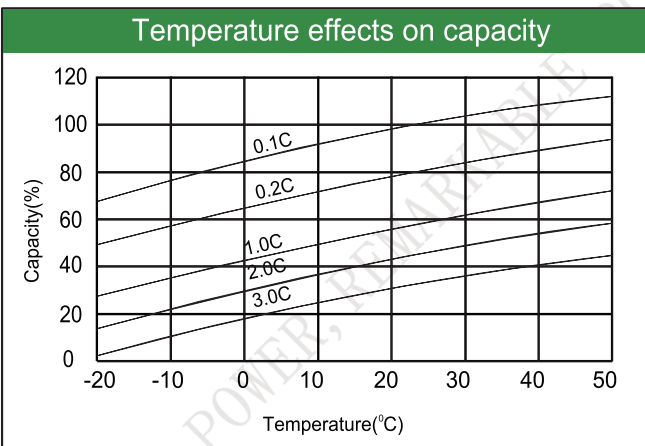
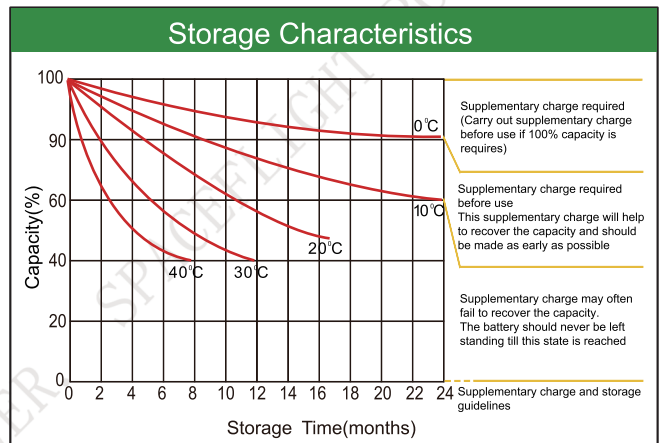
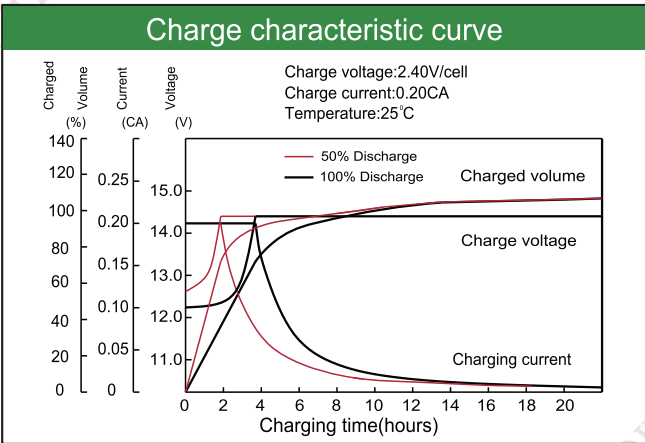
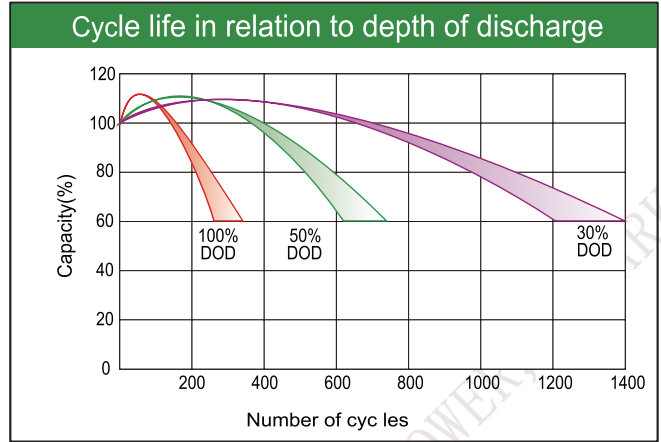
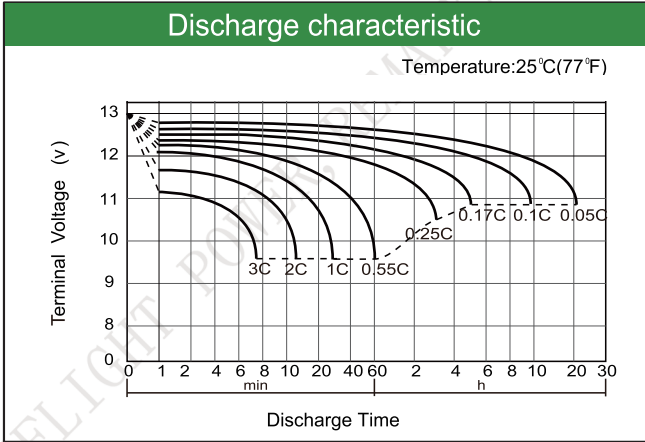
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	/	395	315	195	115	48.5	33.5	18.4	9.55
1.65V	/	372	295	188	113	47.8	33.0	18.3	9.50
1.70V	/	349	275	181	111	47.0	32.5	18.3	9.45
1.75V	/	325	253	178	109	46.2	32.0	18.2	9.40
1.80V	/	300	230	170	106	45.2	31.4	18.0	9.30

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	/	630	510	337	241	223	123	87.7	60.5
1.65V	/	605	492	324	236	219	121	86.5	60.2
1.70V	/	579	477	312	231	214	118	85.3	59.7
1.75V	/	550	461	299	227	210	115	84.1	59.4
1.80V	/	520	425	282	222	205	117	83.2	58.7

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



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