

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

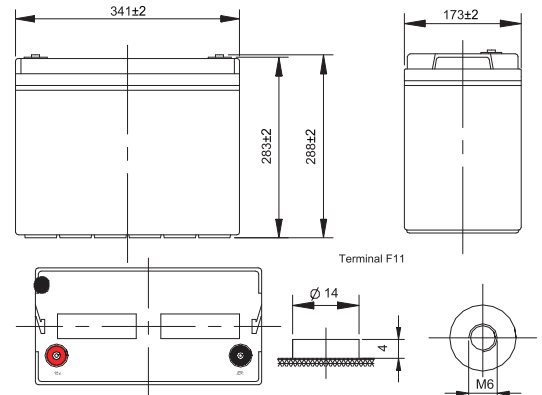
Specifications

Rated Voltage	12V	
Nominal Capacity	134Ah	(C ₁₀ , 10.8V)
Approx Weight	40kg±3%(88.2lbs)	
Terminal	F11	
Rated Capacity(25°C)	142 Ah	(20hr,7.1A,10.5V)
	134 Ah	(10hr,13.4A,10.8V)
	121 Ah	(5hr,24.2A,10.5V)
	92 Ah	(1hr,92A,9.6V)
Max.Discharge Current	1340A(5s)	
Max.Charge Current	33.5A	
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 @25°C(77°F)	Cycle Use	Initial Charging Current less than 33.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 33.5A. 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	341±2mm (13.4 inches)
Width	173±2mm (6.81inches)
Container Height	283±2mm (11.1inches)
Total Height	288±2mm (11.3 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

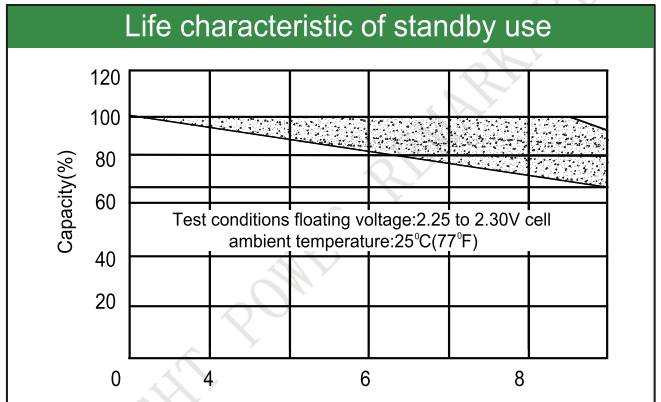
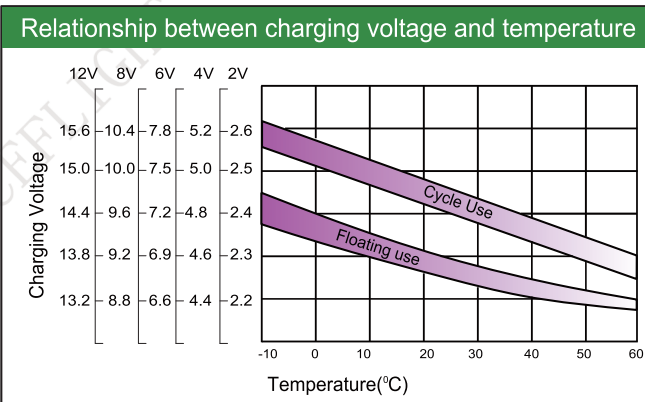
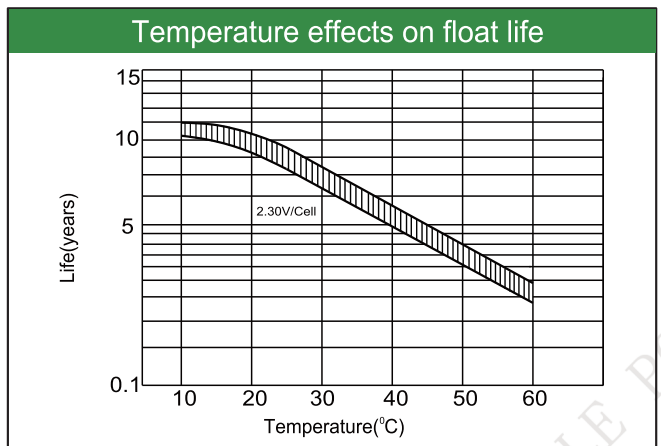
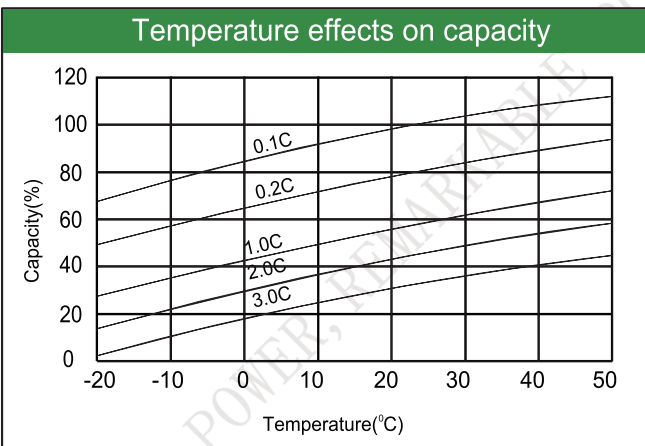
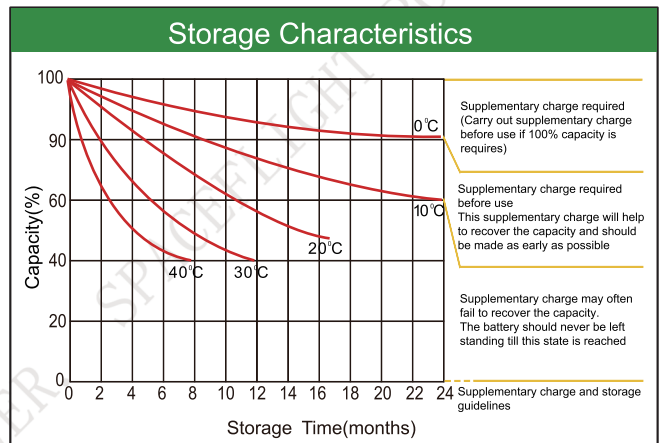
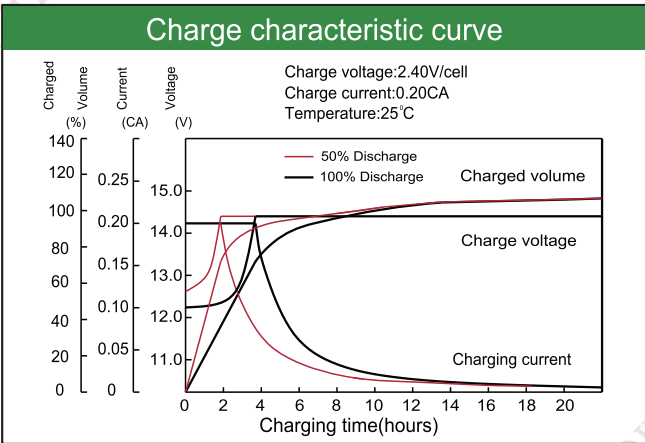
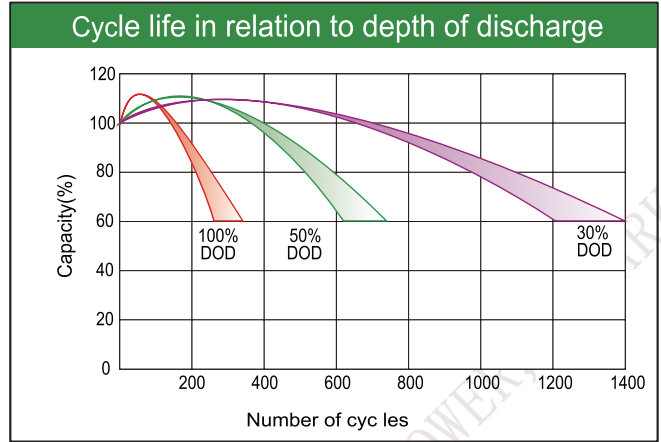
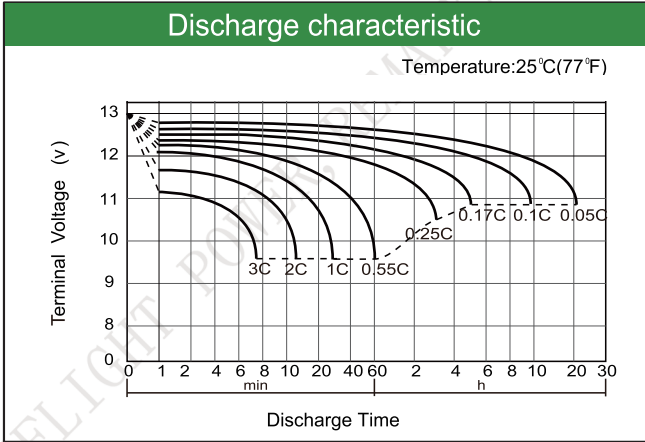
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	440	310	245	152	92.0	39.5	25.3	13.8	7.20
1.65V	423	297	236	147	89.0	38.6	25.0	13.8	7.20
1.70V	404	283	226	142	85.5	37.5	24.6	13.7	7.15
1.75V	383	267	216	136	82.0	36.4	24.2	13.6	7.10
1.80V	361	249	205	129	78.0	35.2	23.7	13.4	7.00

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	760	550	480	285	217	175	103	72.0	51.0
1.65V	730	525	460	273	209	170	100	70.5	50.2
1.70V	697	498	439	259	200	164	96.5	68.8	49.3
1.75V	660	468	417	245	191	158	93.0	67.0	48.3
1.80V	620	435	393	230	181	151	89.0	65.0	47.1

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



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