

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

- Uninterruptible power supplies
- Telecommunication systems
- Communication equipments
- Emergency Power Systems
- Security system

General Features

- 10-12 years designed floating 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

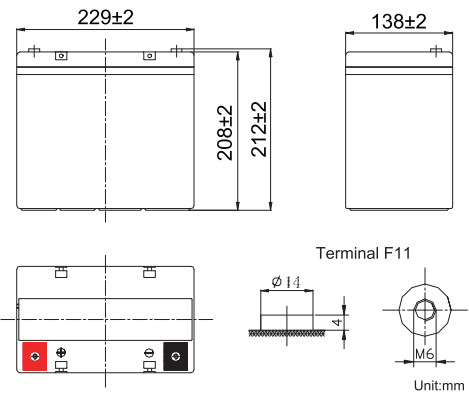
Specifications

Rated Voltage	12V	
Nominal Capacity	250W/cell	(15min rate@1.67V)
Approx Weight	18.3kg±3%(40.34lbs)	
Terminal	F11	
Rated Capacity(25°C)	58 Ah	(20hr,2.9A,10.5V)
	55 Ah	(10hr,5.5A,10.8V)
	53 Ah	(5hr,10.6A,10.5V)
	48.2 Ah	(1hr,48.2A,9.6V)
Max.Discharge Current	550A(5s)	
Max.Charge Current	13.8A	
Internal Resistance(25°C)	Approx 6mΩ	
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 13.8A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 13.8A. 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	229±2mm (9.02 inches)
Width	138±2mm (5.43 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	Fiberglass	Sulfuric acid

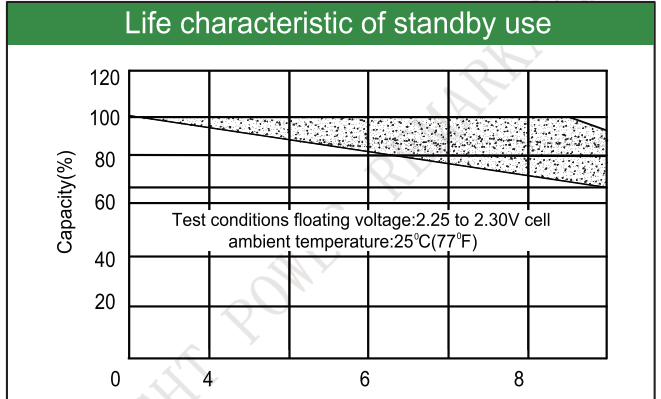
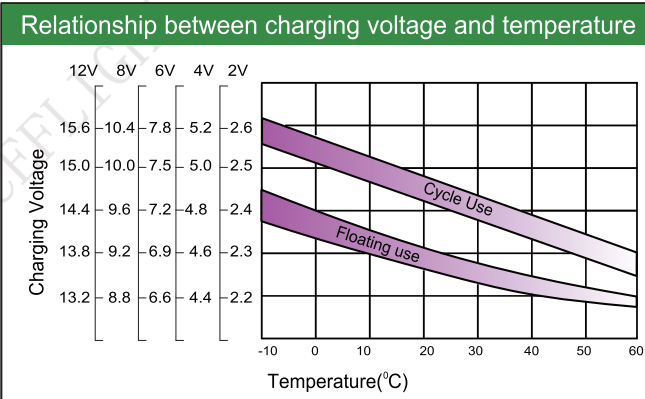
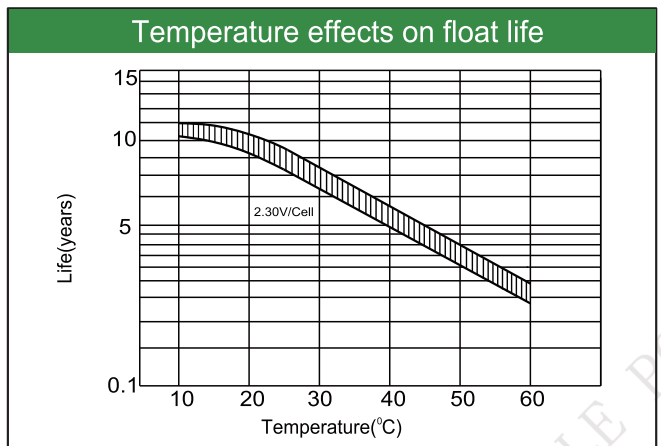
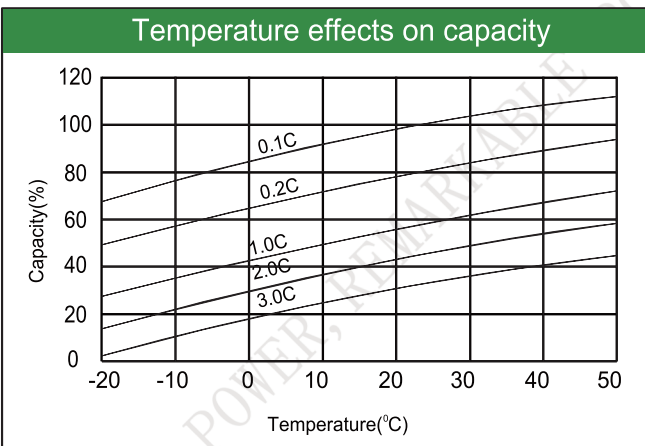
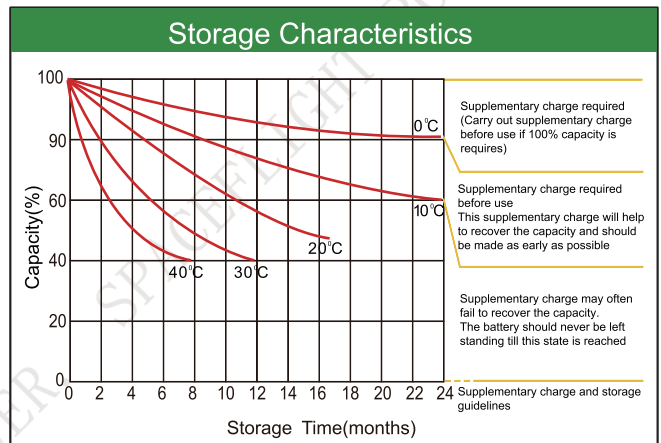
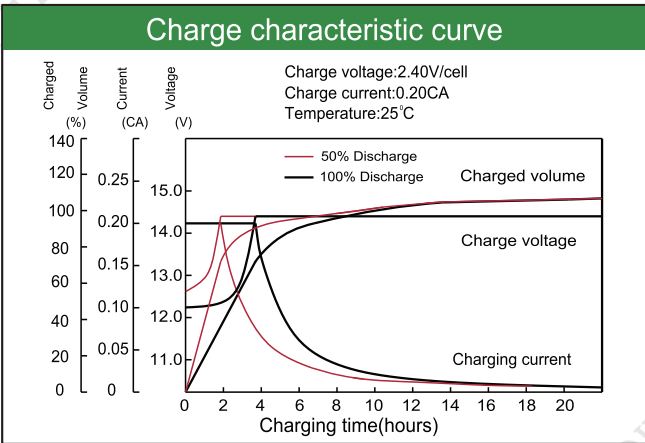
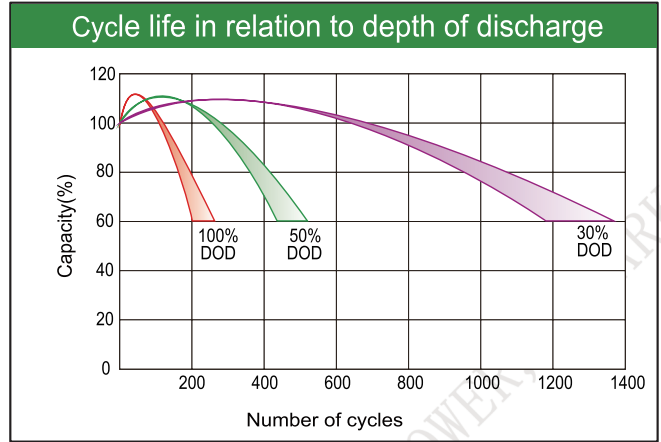
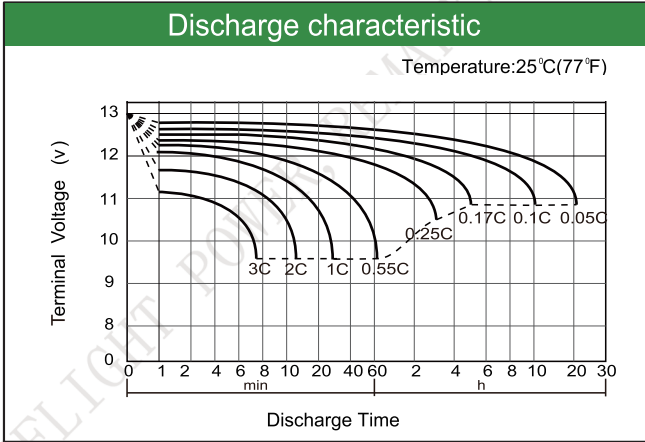
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	246	176	145	80.5	48.2	18.5	11.3	5.85	3.05
1.65V	229	168	140	79.8	46.9	18.1	11.1	5.80	3.00
1.70V	213	160	134	78.6	45.5	17.6	11.0	5.70	2.95
1.75V	200	152	128	77.0	44.1	17.1	10.6	5.60	2.90
1.80V	185	143	121	74.5	42.5	16.5	10.3	5.50	2.85

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

E.V/Time	5min	10min	15min	30min	40min	60min	2h	3h	5h
1.60V	444	313	260	146	120.0	86.0	47.7	35.0	22.4
1.67V	420	296	250	140	115.0	82.5	46.0	34.0	21.8
1.70V	405	290	242	138	112.5	81.0	45.4	33.5	21.4
1.75V	385	278	233	134	108.5	78.5	44.2	32.6	20.8
1.80V	353	265	223	131	104.5	76.2	42.9	31.7	20.1

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



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