SPACEFLIGHT POWER SUPPLY CO., LTD.

HT190-12X(12V190Ah)

HT Series General Battery

Spaceflight HT Series VRLA batteries are designed with AGM technology, high performance plates and technology to give extra power output for common power backup system. HT series batteries are the general purpose with 5-8 years floating design life at 25°C

Applications

- Uninterruptible Power Supply (UPS)
- Emergency backup power supply
- Auto control system
- Communication power supply
- Alarm and security system
- Electric Power System (EPS)

General Features

- 10-12 years design life(25℃)
- Non-spillable construction
- Sealed and maintenance-free
- High reliability and stability
- High purity raw material: long life and low self-discharge

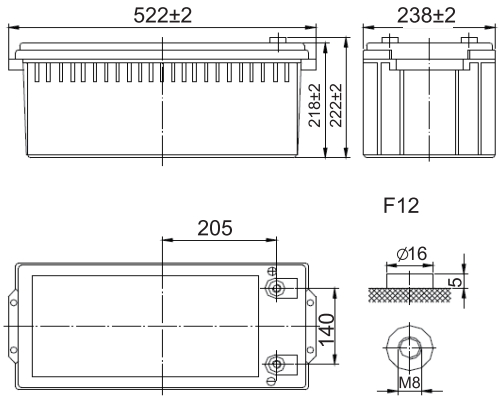
Standards

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

Specifications

Rated Voltage		12V
Nominal Capacity	190Ah	(C_{10},10.8V)
Approx Weight		56kg±3%(123lbs)
Terminal		F12
Rated Capacity(25℃)	201 Ah 190 Ah 167 Ah 122 Ah	(20hr,10.05A,10.5V) (10hr,19A,10.8V) (5hr,33.4A,10.5V) (1hr,122A,9.6V)
Max.Discharge Current		1900A(5s)
Max.Charge Current		47.5A
Internal Resistance(25℃)		Approx5.0mΩ
Operating Temp.Range	Discharge Charge Storage	-20~60℃(-4~140℉) -10~50℃(14~122℉) -20~60℃(-4~140℉)
Nominal operating temperature		25±-5℃
Charge Voltage @25℃(77℉)	Cycle Use	Initial Charging Current less than 47.5A. Voltage 14.4V~15.0V at 25℃(77℉)Temp. Coefficient -30mV/℃
	Standby Use	Initial Charging Current less than 47.5A. Voltage 13.5V~13.8V at 25℃(77℉)Temp. Coefficient -20mV/℃
Temperature effects on capacity	40℃ (104℉) 25℃ (77℉) 0℃ (32℉) -15℃ (5℉)	103% 100% 86% 65%
Self Discharge(25℃)	Capacity after 3 months storage Capacity after 6 months storage Capacity after 12 months storage	91% 82% 65%

Dimensions unit:mm



Length	522±2mm (20.6 inches)
Width	238±2mm (9.37 inches)
Container Height	218±2mm (8.58 inches)
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℃(77℉)

E.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	/	385	318	195	122	51.5	35.6	19.48	10.20
1.65V	/	370	307	189	120	50.5	34.8	19.38	10.15
1.70V	/	353	295	182	117	49.0	34.0	19.19	10.10
1.75V	/	335	281	176	114	48.3	33.4	19.10	10.05
1.80V	/	315	266	168	110	47.0	32.4	19.00	10.00

Constant Power Discharge (Watts/cell) at 25℃(77℉)

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	660	561	356	266	223	133	98.135	68.40
1.65V	/	637	542	355	258	219	131	96.520	67.55
1.70V	/	611	521	344	250	214	128	94.620	66.50
1.75V	/	583	498	332	241	208	124	92.435	65.27
1.80V	/	554	473	317	232	201	121	89.800	63.84

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

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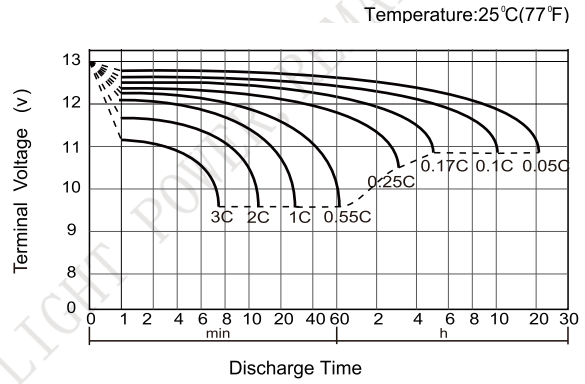
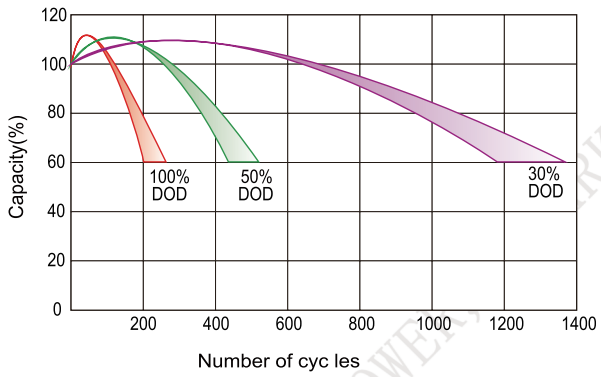
非凡电源 REMARKABLE ENERGY

HT190-12X(12V190Ah)

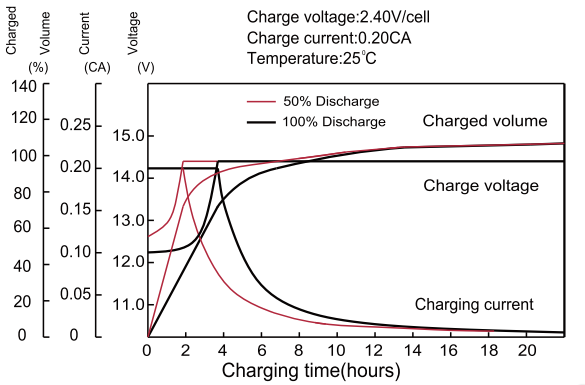
Discharge characteristic



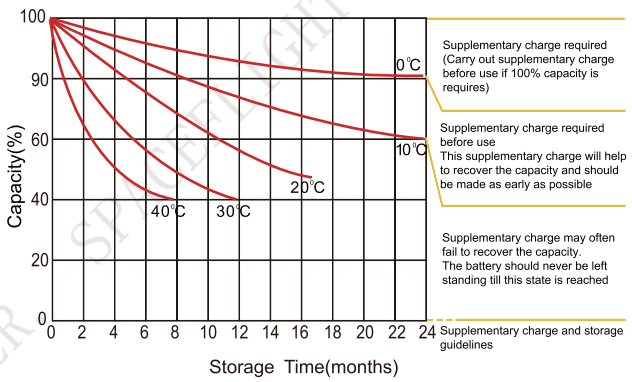
Cycle life in relation to depth of discharge



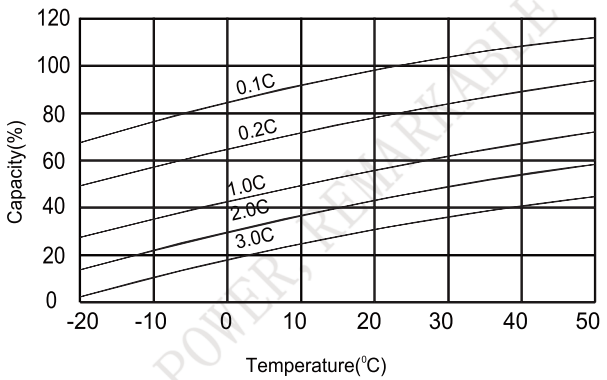
Charge characteristic curve



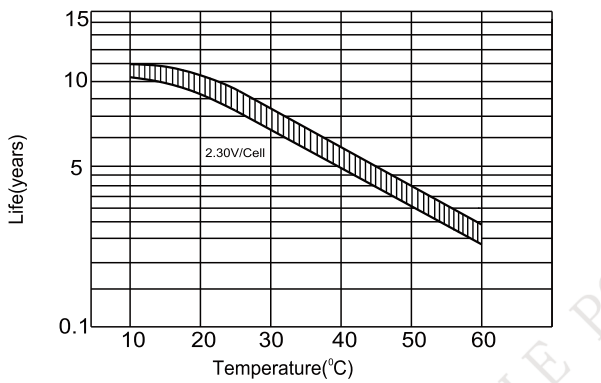
Storage Characteristics



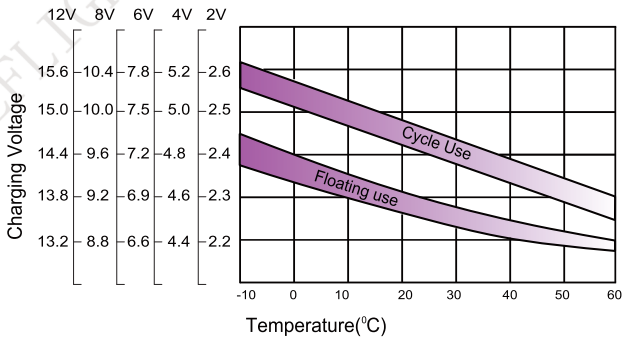
Temperature effects on capacity



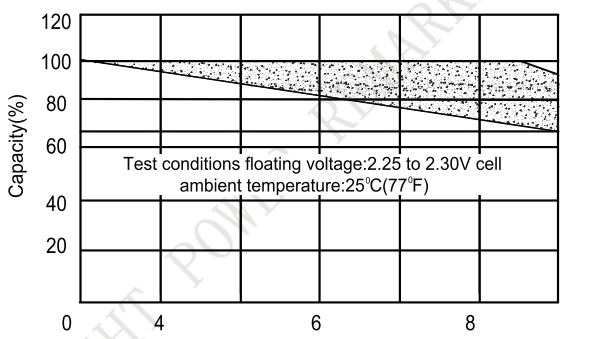
Temperature effects on float life



Relationship between charging voltage and temperature



Life characteristic of standby use



Factory address: Fukang Industrial Zone, Longnan, Ganzhou, Jiangxi Province, China.
Shenzhen Office: RM208-210, Building D, Tongju industrial Park, No.4, Longping WestRoad,Longgang District,Shenzhen.
TEL:+86-755-28288189 **sales@sfbattery.com** **www.sfbattery.com**