SPACEFLIGHT POWER SUPPLY CO., LTD.

HT55-12SGX(12V55Ah)

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

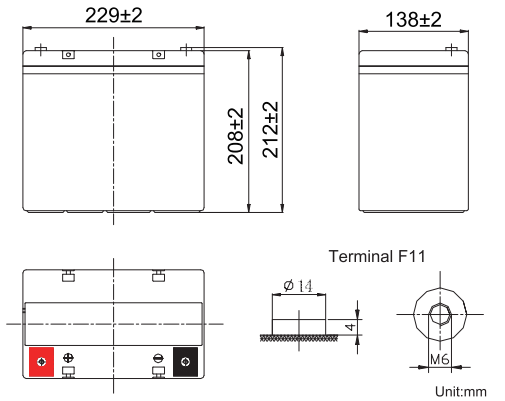
Standards

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

Specifications

Rated Voltage		12V
Nominal Capacity	55Ah	(C_{10},10.8V)
Approx Weight		16.2kg±3%(35.7lbs)
Terminal		F11
Rated Capacity(25℃)	58.6 Ah 55 Ah 48 Ah 35.2 Ah	(20hr,2.93A,10.5V) (10hr,5.5A,10.8V) (5hr,9.6A,10.5V) (1hr,35.2A,9.6V)
Max.Discharge Current		550A(5s)
Max.Charge Current		13.8A
Internal Resistance(25℃)		Approx 8.5mΩ
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 13.8A. Voltage 14.4V~15.0V at 25℃(77℉)Temp. Coefficient -30mV/℃
	Standby Use	Initial Charging Current less than 13.8A. 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	229±2mm (9.01 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℃(77℉)

E.V/Time	5min	10min	15min	30min	60min	3h	5h	10h	20h
1.60V	172	130	98.0	58.2	35.2	14.5	9.98	5.69	2.98
1.65V	162	123	98.0	56.5	34.4	14.3	9.88	5.65	2.97
1.70V	152	115	89.5	54.5	33.6	14.0	9.75	5.60	2.95
1.75V	141	108	84.4	52.9	32.7	13.7	9.60	5.55	2.93
1.80V	128	100	80.5	51.0	31.6	13.4	9.43	5.50	2.90

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

E.V/Time	5min	10min	15min	30min	45min	60min	2h	3h	5h
1.60V	330	247	191	115	88.4	71.4	42.5	30.1	19.4
1.65V	310	233	183	113	87.1	69.8	41.7	29.5	19.3
1.70V	291	220	176	111	85.3	68.2	40.8	28.9	18.8
1.75V	271	207	168	109	83.4	66.6	39.8	28.3	18.7
1.80V	257	192	159	107	81.2	64.9	38.8	27.7	18.5

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

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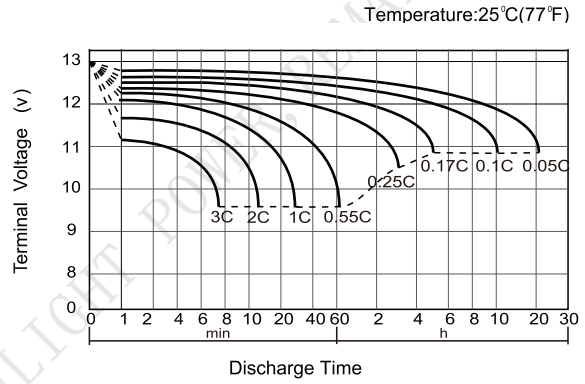
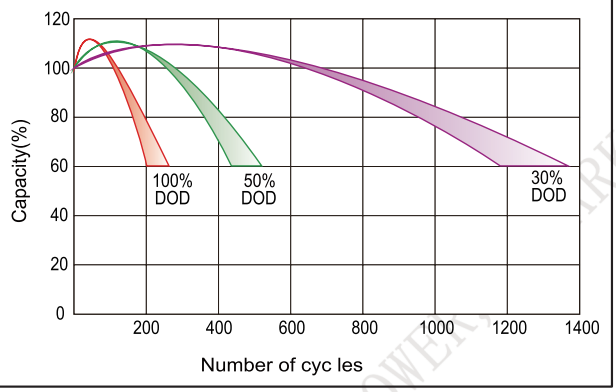
非凡电源 REMARKABLE ENERGY

HT55-12SGX(12V55Ah)

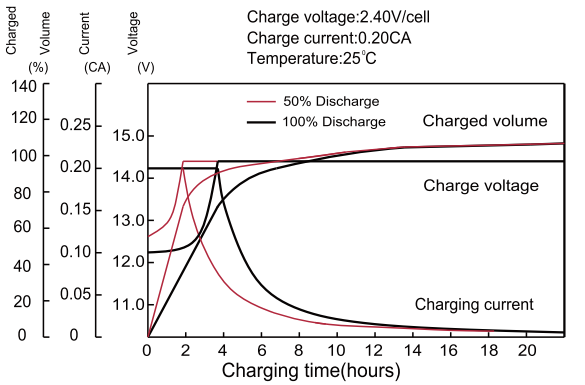
Discharge characteristic



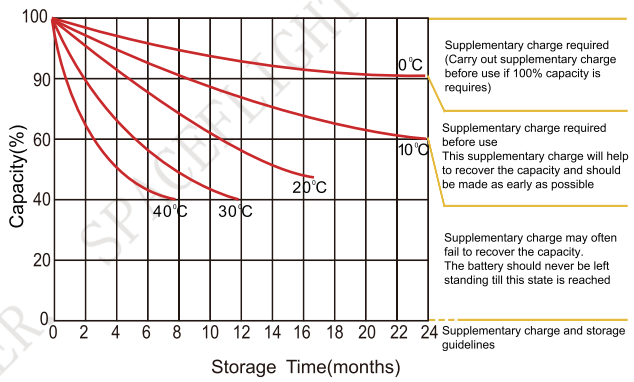
Cycle life in relation to depth of discharge



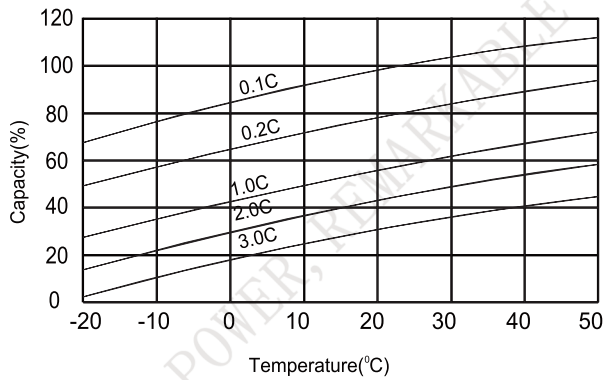
Charge characteristic curve



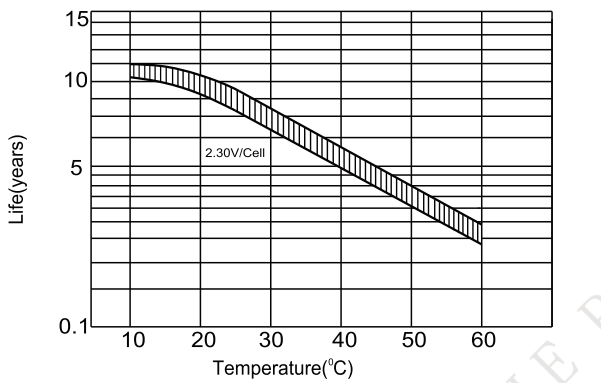
Storage Characteristics



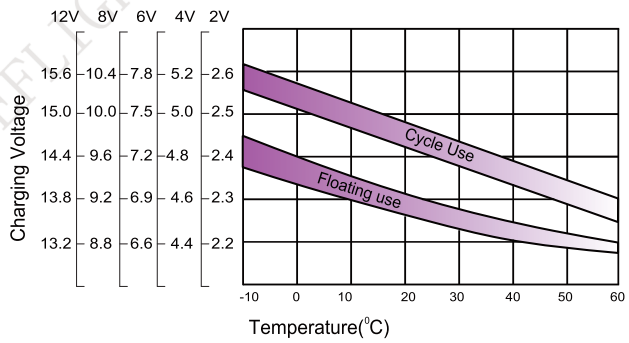
Temperature effects on capacity



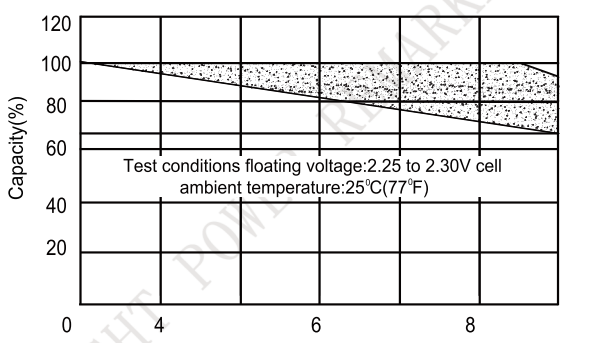
Temperature effects on float life



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**