

HFS Series

HFS12-820WS-X



The new VISION HFS series batteries are designed for UPS Standby Power. Applications requiring high power output. Computer designed grids and optimized plate paste formula produce high energy density and long lasting uninterrupted power for critical systems. Suitable for data centres, large UPS, telecom equipment and other scenarios.



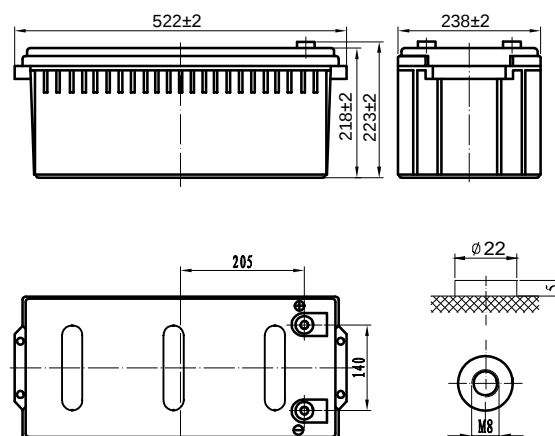
General Feature

- Sealed maintenance-free design, gas recombination efficiency up to 99%;
- Compact size, light weight, high discharge efficiency, suitable for the needs of high-precision power supply equipment;
- High tin low calcium alloy grid, high power lead paste formula, 5-15min backup power dedicated design;
- Produced by advanced automated equipment, more stable product performance;
- Low self-discharge rate, low internal resistance, strong charge acceptance ability;
- Standard and flame-retardant ABS cell covers (FR UL94-V0) available;
- Recommended for 1 hour or less backup power use, with more outstanding performance.

Standards & Certificates

- IEC 60896-21/22
- CE, UL approved
- GB/T 45001 / ISO 45001
- GB/T 24001 / ISO 14001
- GB/T 19001 / ISO 9001

Dimensions



Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	PbO ₂	Pb	ABS	ABS	EPDM	Cu	AGM	H ₂ SO ₄

Specifications

Battery model	HFS12-820WS-X
Nominal Voltage	12V
Nominal Capacity (25℃)	220Ah (10hr, 10.8V)
Nominal Power (25℃)	820W/Cell(15min.1.67VPC)
Weight	68.5±3%Kg
Internal Resistance	Fully Charged battery 77°F (25℃) : ≤2.2 mΩ
Dimensions (L*W*H*TH)	522*238*218*223mm
Short Circuit	5860A
Charging Voltage	Floating Charge: 2.23~2.28VPC, Temperature compensation: -3.3mV/℃/Cell Equalizing Charge: 2.30~2.40VPC, Temperature compensation: -5.0mV/℃/Cell
Maximum Charging Current	66.0A
Self-Discharge	3% of capacity declined per month at 20℃(average)
Operating Temperature Range	Discharge: -20 ~ 60℃; Charge: -10 ~ 60℃; Storage: -15~40℃
Design life (25℃)	12years
Terminal	M8

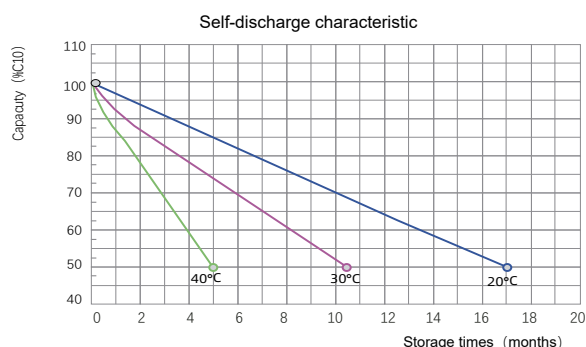
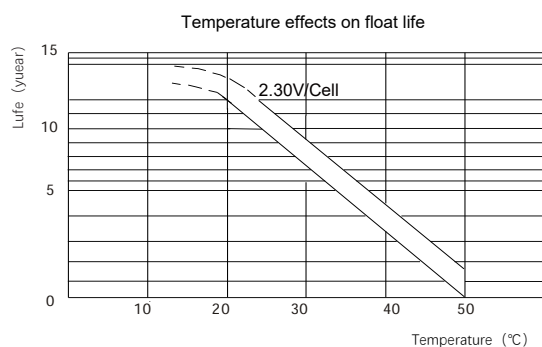
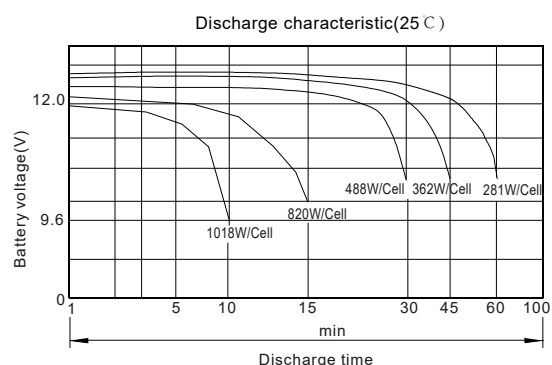
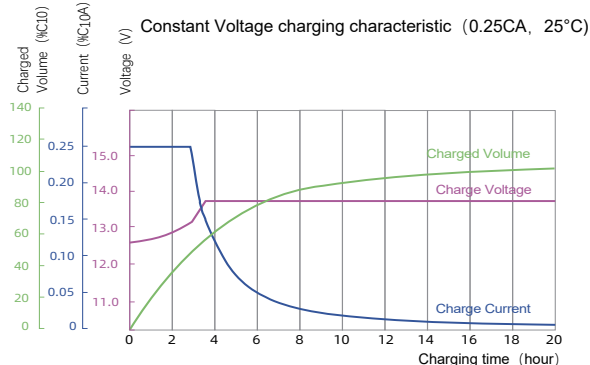
Constant Current Discharge Data (25°C,A)

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	971	748	558	447	389	341	303	222	171
1.65	931	721	544	433	377	332	294	215	167
1.67	915	711	538	428	372	328	291	212	165
1.70	882	695	511	409	355	312	279	204	159
1.75	876	675	486	390	337	296	267	194	151
1.80	862	643	465	381	320	281	254	185	145

Constant Power Discharge Data (25°C,W/Cell)

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	1486	1276	1018	827	683	601	534	394	305
1.65	1451	1265	997	822	671	584	523	386	299
1.67	1437	1261	984	820	667	578	519	383	297
1.70	1402	1200	966	780	645	554	504	373	289
1.75	1376	1138	907	752	621	531	488	362	281
1.80	1347	1114	857	680	578	508	463	352	273

Characteristic Curve



Cautions

- Do not attempt to disassemble, disassemble or modify by yourself;
- Carefully short-circuit the positive and negative poles of the battery or battery pack;
- Use appropriate wires for connecting and extracting the battery pack;
- When connecting, make sure to cut off the power supply and firmly connect the terminal bolts;
- Do not use the battery directly as an alternating current power source;
- Do not contaminate with oil, water or other chemical solvents and chemicals;
- During the handling process, handle the battery with care, avoid rolling or dropping it;
- It should be stored or installed in a dry and ventilated place, away from heat sources and avoid direct sunlight;
- Connect the battery to a matching power supply and set the charging voltage, current and other parameters as required;



DISCLAIMER: This information is only a brief description of the performance of the product and does not imply a warranty for any of the batteries. The relevant parameters of the battery can be modified independently without notice, please keep in touch with Vision to get the latest information. The final interpretation right belongs to Shenzhen Center Power Tech.Co.Ltd.,