

HFS Series

HFS12-560W-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.



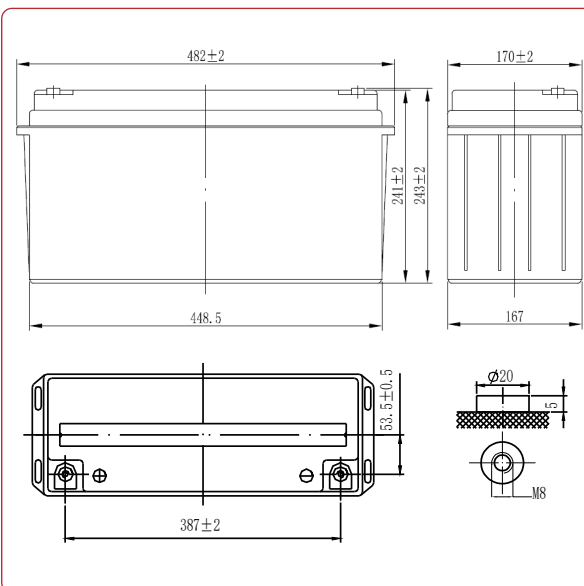
General Feature

- 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	HFS12-560W-X
Nominal Voltage	12V
Nominal Capacity (25°C)	150Ah (10hr, 10.8V)
Nominal Power (25°C)	560W/Cell(15min, 1.67VPC)
Weight	47.0±3%Kg
Internal Resistance	Fully Charged battery 77°F (25°C) : ≤3.5 mΩ
Dimensions (L*W*H*TH)	482*170*241*243mm
Short Circuit	3600A
Charging Voltage	Floating Charge: 2.23~2.28VPC, Temperature compensation: -3.3mV/°C/Cell Equalizing Charge: 2.30~2.40VPC, Temperature compensation: -5.0mV/°C/Cell
Maximum Charging Current	43.5A
Self-Discharge	3% of capacity declined per month at 20°C(average)
Operating Temperature Range	Discharge: -20 ~ 60°C; Charge: -10 ~ 60°C; Storage: -15~40°C
Design life (25°C)	12years
Terminal	M8

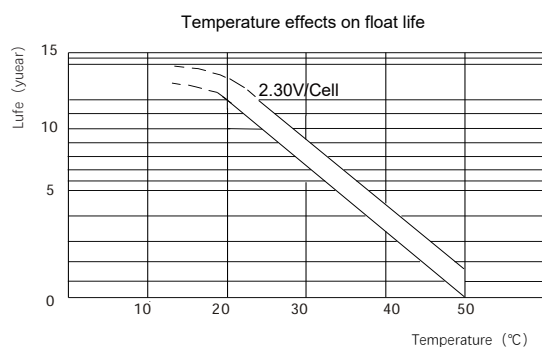
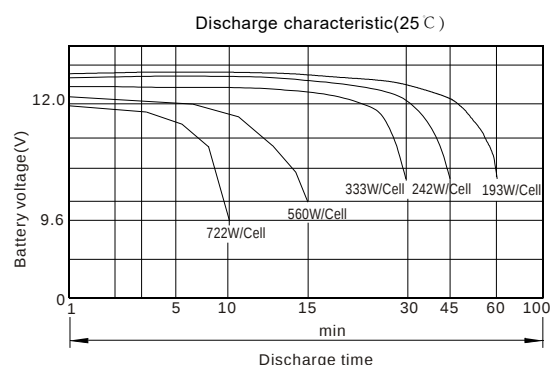
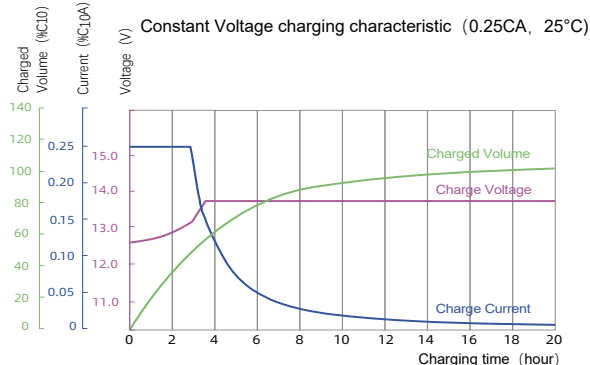
Constant Current Discharge Data (25°C,A)

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	597	501	411	322	284	245	208	139	107
1.65	586	484	392	318	271	237	205	135	105
1.67	582	477	387	312	266	234	204	133	104
1.70	561	454	366	301	258	221	191	130	102
1.75	543	444	354	291	252	218	186	127	101
1.80	518	436	342	277	242	208	176	124	98.0

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

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	1147	915	722	600	502	431	370	267	210
1.65	1130	892	684	571	483	416	362	258	204
1.67	1123	883	668	560	476	410	359	255	202
1.70	1103	864	654	550	463	401	347	250	200
1.75	1076	844	615	527	450	386	333	242	193
1.80	1047	806	601	502	432	372	320	234	190

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.,