

HFS Series

HFS12-320W-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.



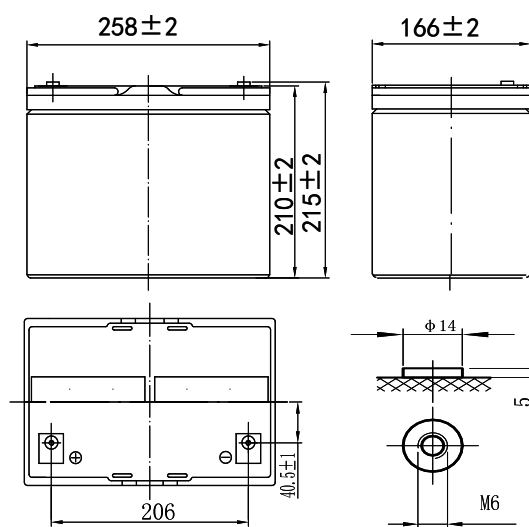
General Feature

- 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	HFS12-320W-X
Nominal Voltage	12V
Nominal Capacity (25℃)	75Ah (10hr, 10.8V)
Nominal Power (25℃)	320W/Cell(15min, 1.67VPC)
Weight	25±3%Kg
Internal Resistance	Fully Charged battery 77°F (25℃) : ≤5.0 mΩ
Dimensions (L*W*H*TH)	258*166*210*215mm
Short Circuit	2580A
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	22.5A
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	M6

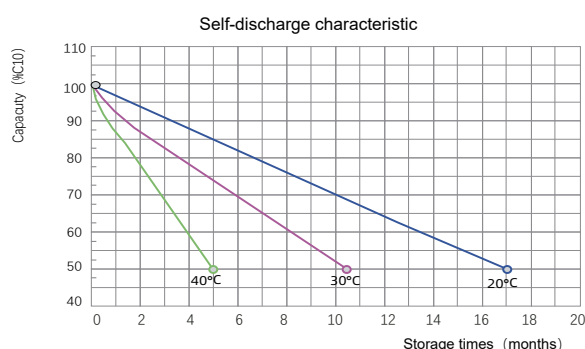
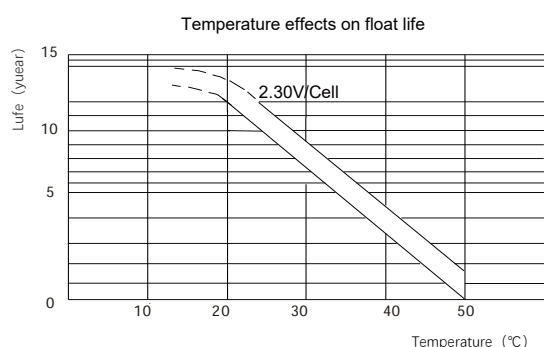
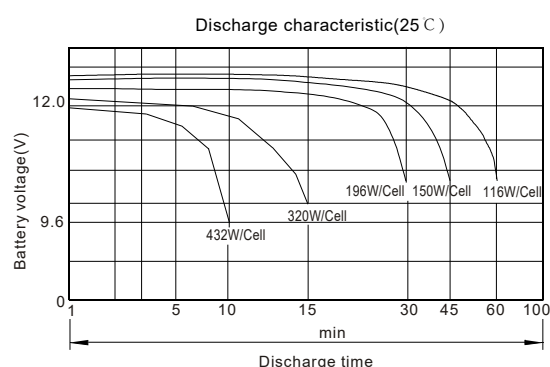
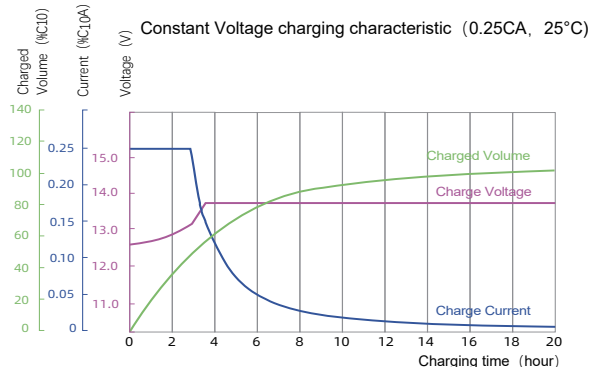
Constant Current Discharge Data (25°C,A)

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	397	332	242	183	153	130	116	87.8	69.1
1.65	386	319	231	174	148	127	113	85.2	67.3
1.67	382	314	227	170	146	126	112	84.2	66.6
1.70	372	305	216	164	140	122	109	82.2	64.2
1.75	348	272	198	154	131	113	102	79.1	62.2
1.80	318	249	183	144	124	108	98.0	73.6	57.9

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

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	810	640	432	327	281	241	213	158	124
1.65	754	598	420	322	273	235	209	155	122
1.67	732	581	415	320	270	232	207	154	121
1.70	673	551	386	301	263	228	204	152	119
1.75	643	500	364	288	249	216	196	150	116
1.80	583	465	340	273	238	210	188	142	111

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.,