

HFS Series

HFS12-710WS-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.



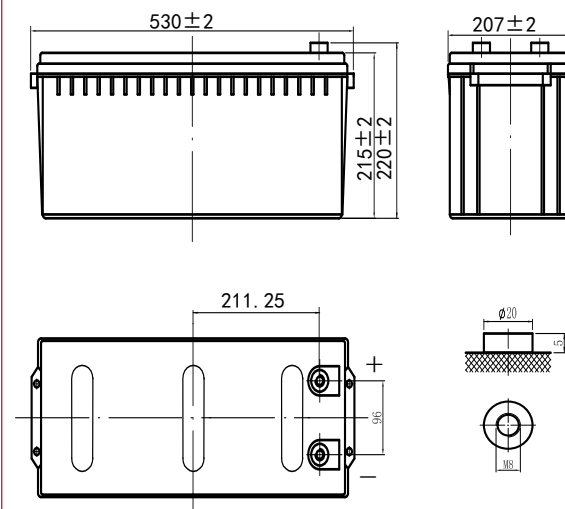
General Feature

- 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	HFS12-710WS-X
Nominal Voltage	12V
Nominal Capacity (25℃)	192Ah (10hr, 10.8V)
Nominal Power (25℃)	710W/Cell(15min.1.67VPC)
Weight	57.0±3%Kg
Internal Resistance	Fully Charged battery 77°F (25℃) : ≤3.0 mΩ
Dimensions (L*W*H*TH)	530*207*215*220mm
Short Circuit	4300A
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	55.5A
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	M8

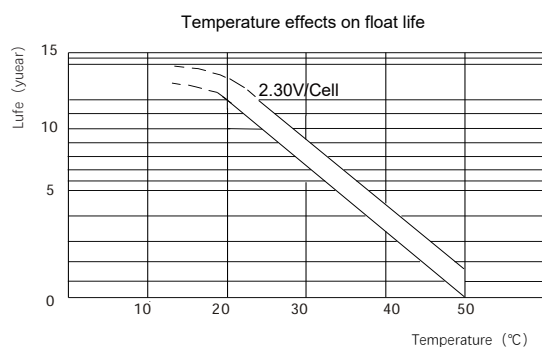
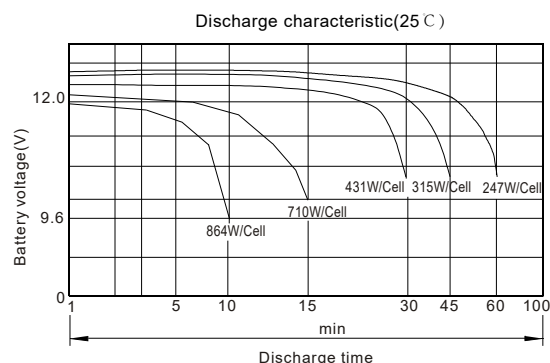
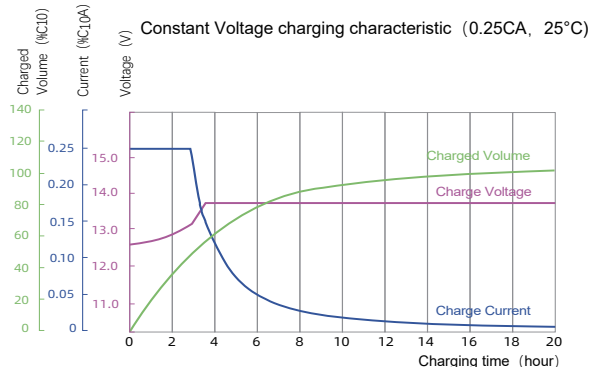
Constant Current Discharge Data (25°C,A)

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	843	614	492	362	330	294	265	207	162
1.65	839	611	489	360	329	293	263	205	160
1.67	829	602	483	356	327	290	259	198	155
1.70	813	587	464	350	320	281	254	192	150
1.75	799	569	454	342	314	277	248	184	143
1.80	784	555	434	334	304	268	240	176	138

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

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	1356	1134	864	730	620	545	485	355	277
1.65	1341	1115	852	716	608	535	472	344	270
1.67	1335	1107	847	710	604	531	466	340	267
1.70	1304	994	817	700	584	513	447	329	257
1.75	1264	976	804	678	559	491	431	315	247
1.80	1227	956	789	643	544	479	412	302	236

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.,