

HFS Series

HFS12-850WR-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.



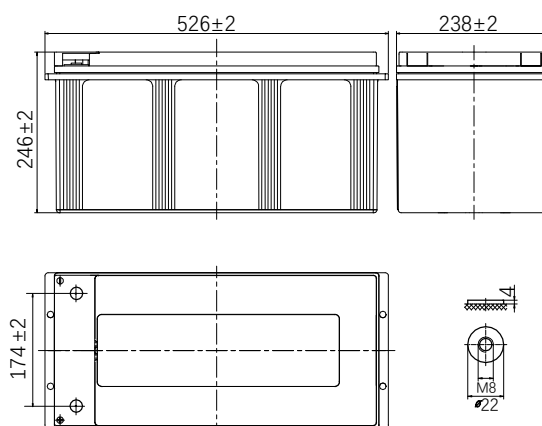
General Feature

- 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

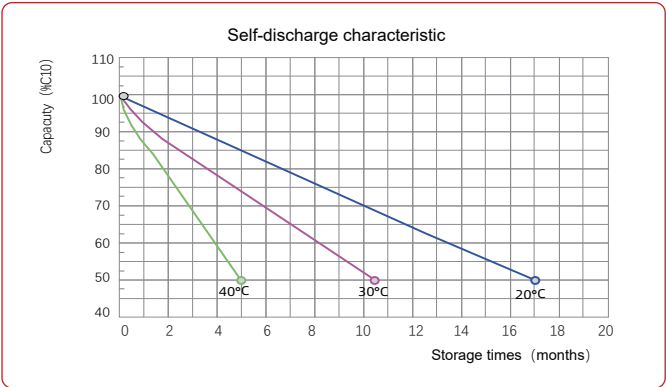
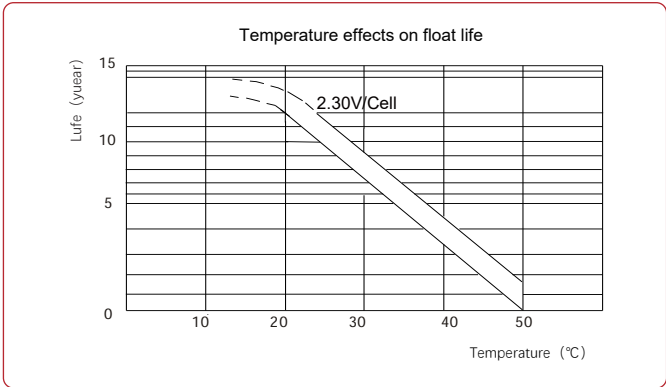
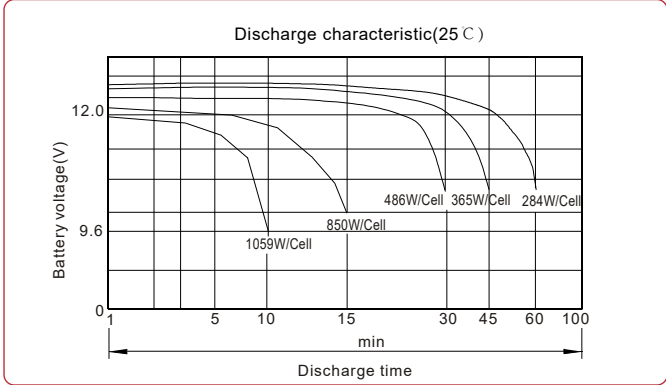
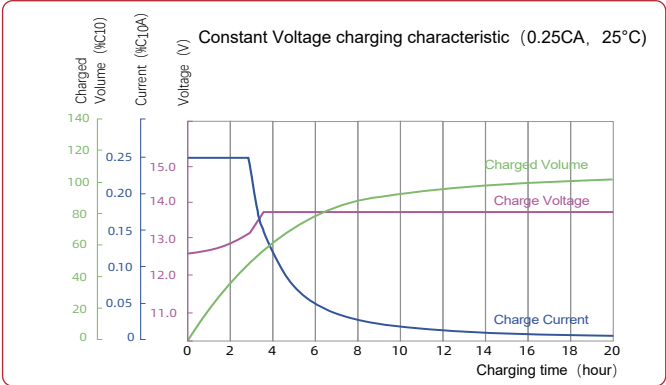
Specifications

Battery model	HFS12-850WR-X
Nominal Voltage	12V
Nominal Capacity (25°C)	220Ah (10hr, 10.8V)
Nominal Power (25°C)	850W/Cell(15min.1.67VPC)
Weight	70.5±3%Kg
Internal Resistance	Fully Charged battery 77°F (25°C) : ≤1.7 mΩ
Dimensions (L*W*H*TH)	526*238*246*246mm
Short Circuit	7580A
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	66.0A
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℃,A)									
End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	957	777	594	460	395	346	305	224	173
1.65	947	750	583	446	386	337	299	217	169
1.67	943	739	576	440	382	334	296	214	167
1.70	928	714	554	420	365	318	284	206	161
1.75	915	694	532	400	342	302	269	196	153
1.80	897	678	516	392	331	289	254	187	147

Constant Power Discharge Data (25℃,W/Cell)									
End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	1654	1386	1059	860	716	613	546	399	310
1.65	1633	1341	1034	853	702	604	534	392	303
1.67	1624	1323	1016	850	697	601	529	389	300
1.70	1587	1290	976	805	667	578	515	376	292
1.75	1543	1268	946	780	645	557	486	365	284
1.80	1516	1174	873	700	597	520	467	355	276

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.,