HFS Series

HFS12-540WR-X



The new VISION HFS series batteries are designed for UPS Standby Power. Aplications 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.

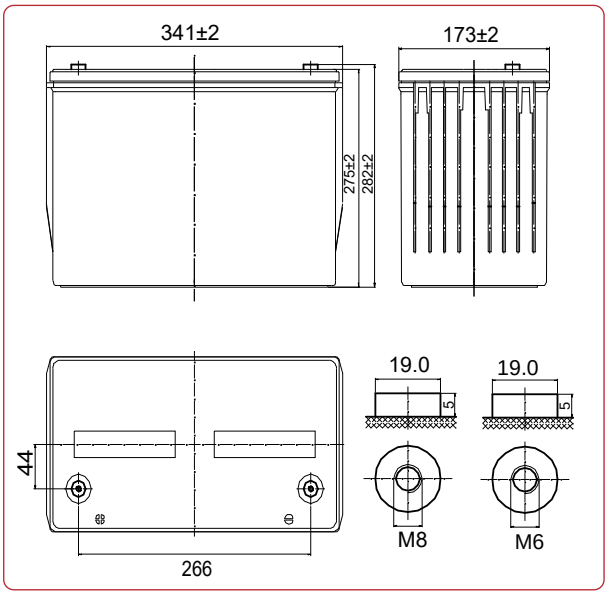
General Feature

- 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	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Specifications

Battery model	HFS12-540WR-X
Nominal Voltage	12V
Nominal Capacity（25℃）	140Ah (10hr, 10.8V)
Nominal Power（25℃）	540W/Cell(15min.1.67VPC）
Weight	41.5±3%Kg
Internal Resistance	Fully Charged battery 77℉（25℃）：≤3.6 mΩ
Dimensions（L*W*H*TH）	341*173*275*282mm
Short Circuit	3580A
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	42.0A
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	M6/M8

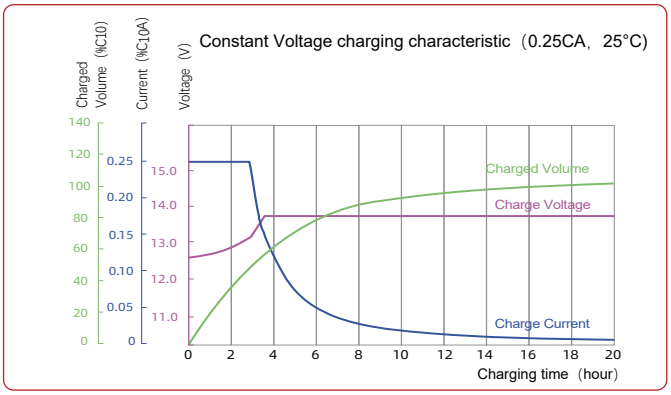
Constant Current Discharge Data（25℃,A)

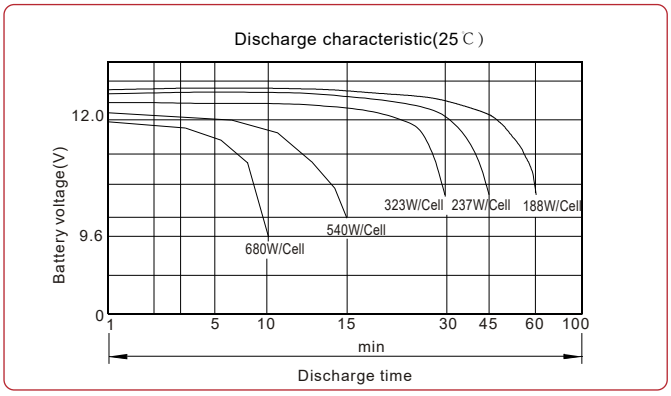
End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	568	469	358	292	253	217	196	134	103
1.65	552	456	337	281	246	212	188	130	101
1.67	546	450	328	276	244	210	185	128	100
1.70	523	433	318	259	228	198	175	125	98.7
1.75	509	416	302	245	215	190	169	122	96.3
1.80	492	403	293	235	206	183	161	119	94.1

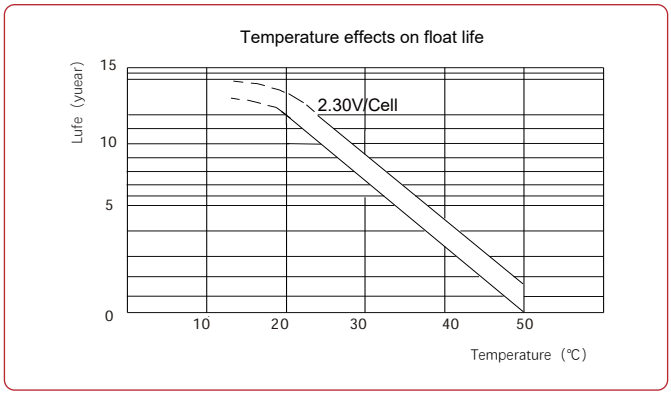
Constant Power Discharge Data（25℃,W/Cell）

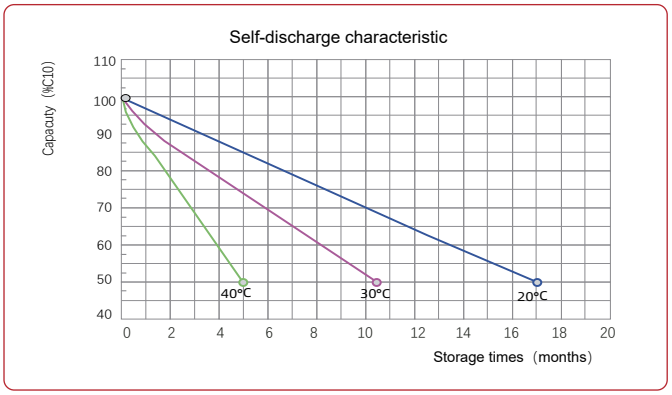
End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	1104	887	680	564	468	400	358	260	201
1.65	1078	857	662	547	459	396	350	255	198
1.67	1067	844	655	540	456	394	347	253	197
1.70	1035	790	601	491	427	374	331	245	192
1.75	1004	766	568	473	412	360	323	237	188
1.80	976	744	534	455	397	347	311	229	184

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,.