



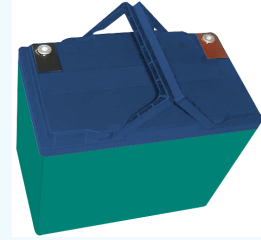
**VISION GROUP**  
Shenzhen Center Power  
Tech.Co.Ltd.,

# HFS12-200W-X

12V 55Ah

## Overview

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.



## 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

## General Features

- Positive and negative plates in lead-calcium-tin alloy;
- Superior energy density;
- Operate at a low internal pressure;
- Gas recombination;
- Special separator technology;
- A recognized component of UL,IEC,TLC.etc;
- Container Material ABS(UL 94-HB);
- Very high power output for 5 to 15 minutes supply;
- A covered range from 90W to 850W per cell for 15min @ 1.67Vpc;
- Six months shelf life at 20 °C;
- Design life :12+ years at 20 °C;
- Recommended loading 1h and below;

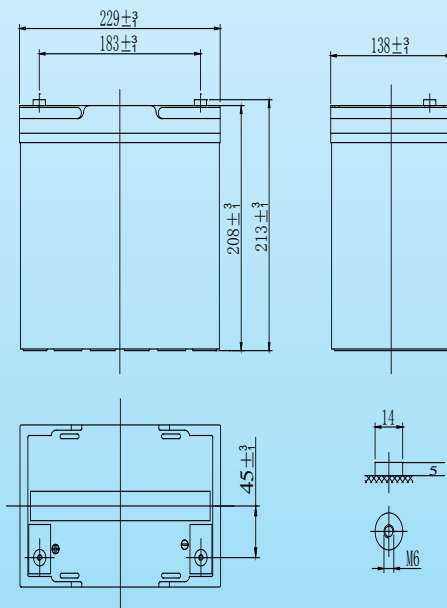
## Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
15 min wattage @ 1.67VPC	200W/cell
10 hour rate (15.0A,10.8V)	55 Ah
20 hour rate (2.90A,10.8V)	58 Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤6.0 mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	550A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40~2.45VPC
Maximum charging current	17.4A
Temperature compensation	-30mV/°C
Standby use	2.23~2.30VPC
Temperature compensation	-20mV/°C

## Dimensions and Weight

Length(mm / inch)	229/9.02
Width(mm / inch)	138/5.43
Height(mm / inch)	208/8.19
Total Height(mm / inch)	213/8.39
Approx. Weight(Kg / lbs)	17.0/37.5

\* Weight deviation: ± 5%



## Discharge Constant Current (Amperes at 77°F25°C)

End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	315	248	164	119	99	84.1	73.3	54.1	42.6
1.65V	301	238	159	116	97	83.5	72.8	53.6	42.2
1.67V	294	228	154	115	96	83.0	72.3	53.5	41.9
1.70V	283	213	147	113	95	82.2	71.7	53.2	41.6
1.75V	261	195	138	108	92	79.6	69.5	52.0	41.1
1.80V	248	183	125	99	85	72.9	65.1	50.0	39.7

## Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	497	391	275	204	172	149	131	101	76.4
1.65V	488	389	274	203	171	148	130	100	76.3
1.67V	466	384	270	200	170	144	128	97.7	76.2
1.70V	453	354	258	196	166	142	126	96.4	76.0
1.75V	425	334	240	188	163	141	123	94.3	74.4
1.80V	405	316	222	177	152	132	118	91.4	72.6

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.



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