



## VISION Rechargeable Products Sealed Lead Acid Battery

[www.vision-batt.com](http://www.vision-batt.com)

## HP&HF Series

### High Rate Discharge

The new VISION HP/HF series batteries are specially designed for applications where need high power output. By optimum design of battery grids and plate paste formula, the HP/HF series can deliver up to 40% more power than VISION standard CP/FM series.

Shenzhen Center power tech co., ltd has more than 15 year's experience in the manufacturing of VRLA batteries. SZCPT is one of the biggest manufacturers of SLA (or VRLA) batteries in the world, the biggest one in Mainland China and the first in China to develop and commercialize the sealed lead-acid battery with brand name VISION and has been at the forefront of battery technology from day one.

SZCPT leads the world in innovative battery technology. Our global network of sales and service engineers, backed in turn by our agents and distributors, means that we are currently active in more than 100 countries.

Shenzhen Center Power Tech. Co., Ltd

## HF12-600W-X 12V 134Ah

(Edition Jan 2010)

### General Features

- Positive and negative plates in lead-calcium tin alloy
- Superior energy density
- Operates at a low internal pressure.
- Gas Recombination
- Usable in any orientation
- A recognized component of UL
- Very high power output
- Application specific designs
- A couple Range from 13W to 890W per cell for 10' @ 1.60Vpc
- Six months shelf life at 20°C
- Design life 10 years

### Dimensions and Weight

	SI Units	English Units
Length	341mm	13.4inch
Width	173mm	6.81inch
Height	283mm	11.1inch
Total Height	287mm	11.3inch
Approx. Weight	41.5Kg	91.5lbs



### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)  
10 min wattage @ 1.6V600W/cell  
20 hour rate (7.20A, 10.5V) 140Ah
- Nominal Capacity 77°F(25°C)  
10 hour rate (13.4A, 10.8V) 134Ah
- Internal Resistance  
Fully Charged battery 68°F(20°C) 3.5mOhms
- 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 68°F(20°C) 950A(5s)
- Charge Methods: Constant Voltage Charge 68°F(20°C)  
Cycle use 14.5-14.7V  
Maximum charging current 40.2A  
Temperature compensation -30mV/°C
- Standby use 13.6-13.8V  
Temperature compensation -20mV/°C



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**HF12-600W-X 12V 134 Ah**

Discharge Data

Constant Current Discharge Data (Amperes at 25°C)

End Voltage per cell/V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.25h	1.5h	1.75h	2h	2.25h	2.5h	2.75h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60		329	270	227	199	180	158	141	129	117	108	100	84.2	71.0	63.2	56.3	51.9	47.4	43.2	41.6	30.3	26.7	22.8	19.9	17.8	16.2	13.8	11.7	6.24
1.65		312	256	215	189	171	150	134	122	111	103	95.7	80.9	67.8	60.9	53.8	50.0	45.4	41.6	39.8	29.9	25.6	21.8	19.2	17.2	15.6	13.7	11.6	6.20
1.70		294	240	204	178	162	142	127	115	106	97.6	91.3	77.7	64.6	58.5	51.3	48.0	43.4	40.0	38.1	28.6	24.5	21.0	18.4	16.4	14.9	13.6	11.5	6.16
1.75		276	227	192	168	153	134	120	109	100	92.9	86.5	74.4	61.4	56.1	48.8	46.1	41.3	38.4	36.3	27.3	23.4	20.0	17.6	15.8	14.4	13.5	11.4	6.12
1.80		265	218	186	163	148	130	117	107	98.0	90.5	84.5	71.1	60.0	53.8	47.8	44.2	40.4	36.8	35.6	26.7	23.0	19.7	17.3	15.5	14.1	13.4	11.3	6.08

Constant Power Discharge Data (Watts per cell at 25°C)

End Voltage per cell/V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.25h	1.5h	1.75h	2h	2.25h	2.5h	2.75h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60		600	490	404	353	319	282	255	234	212	195	180	152	131	117	106	97.0	88.4	79.9	76.8	61.3	52.0	44.7	39.4	35.5	32.4	29.9	25.9	12.6
1.65		578	472	390	341	308	274	247	227	207	190	177	149	128	114	104	94.6	86.5	77.9	74.9	59.8	50.8	43.7	38.6	34.7	31.7	29.3	25.5	12.4
1.70		554	455	377	330	298	265	240	220	201	186	173	146	125	111	101	92.1	84.2	75.9	72.9	58.4	49.7	42.7	37.7	34.0	31.1	28.8	25.0	12.2
1.75		526	438	363	318	288	256	232	213	196	181	169	142	122	108	98.0	89.6	81.8	73.9	71.1	57.0	48.5	41.7	36.9	33.2	30.4	28.1	24.5	11.9
1.80		504	421	350	306	277	247	224	206	189	176	165	139	118	105	94.7	87.1	79.4	71.9	69.1	55.5	47.3	40.7	36.0	32.5	29.8	27.5	24.1	11.6

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

Performance drawings

