



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 platepaste 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

## HP12-105W-X 12V17Ah

(Edition Jan 2014)

### 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 1010W per cell for 10' @ 1.60Vpc
- Six months shelf life at 20°C
- Design life 5 years



### Dimensions and Weight

	SI Units	English Units
Length	181mm	7.13inch
Width	77mm	3.03inch
Height	167mm	6.57inch
Total Height	167mm	6.57inch
Approx. Weight	5.90Kg	13.0lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)  
10 min wattage @ 1.6V 105W/cell
- Nominal Capacity 77°F(25°C)  
20 hour rate (0.85A, 10.5V) 17.0Ah
- Internal Resistance  
Fully Charged battery 77°F(25°C) ≤ 15mOhms
- 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) 255A(5s)
- Short Circuit Current 800A
- Charge Methods: Constant Voltage Charge 77°F(25°C)  
Cycle use 2.40-2.45VPC  
Maximum charging current 6.8A  
Temperature compensation -30mV/°C
- Standby use 2.20-2.30VPC  
Temperature compensation -20mV/°C



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**HP12-105W-X 12V 17Ah**

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
1.60	88.9	61.5	48.1	37.7	31.4	27.2	24.0	21.6	19.7	18.0	16.7	15.6
1.65	83.6	58.2	45.6	35.7	29.8	25.8	22.8	20.5	18.7	17.2	15.9	14.8
1.70	78.3	54.8	43.1	33.8	28.1	24.4	21.6	19.4	17.8	16.3	15.1	14.1
1.75	73.0	51.5	40.6	31.8	26.5	23.0	20.3	18.4	16.8	15.4	14.3	13.4
1.80	69.9	49.6	39.2	30.8	25.8	22.4	19.8	17.9	16.4	15.1	14.0	13.1

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
1.60	152	105	81.9	63.9	53.2	46.0	40.7	36.8	33.7	31.2	29.1	27.4
1.65	146	101	79.0	61.7	51.4	44.5	39.5	35.7	32.7	30.3	28.3	26.7
1.70	139	97.2	76.1	59.6	49.6	43.0	38.2	34.5	31.7	29.4	27.5	25.9
1.75	133	93.2	73.3	57.4	47.9	41.5	36.9	33.4	30.7	28.5	26.7	25.2
1.80	126	89.3	70.4	55.2	46.1	40.0	35.6	32.3	29.7	27.6	25.9	24.4

(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.

Performance Drawings

