

VISION Rechargeable Products Sealed Lead Acid Battery

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., Itd 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

### HP12-46W 12V 8Ah

### **General Features**

- Positive and negative plates in lead-calcium tinalloy
- 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

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- Six months shelf life at 20°C
- Design life 5 years





Dimensions and Weight								
	SI Units	English Units						
Length	151mm	5.94inch						
Width	65mm	2.56inch						
Height	94mm	3.70inch						
Total Height	100mm	3.94inch						
Approx. Weight	2.50Kg	5.51lbs						

#### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity77 °F(25°C)

10 min wattage @1.6V 46W/cell

Nominal Capacity 77°F (25°C)

20 hour rate (0.40A, 10.5V) 8.00Ah

Internal Resistance

Fully Charged battery  $77^{\circ}F(25^{\circ}C) \leq 20 \text{mOhms}$ 

Self-Discharge

3% of capacity declined permonth 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) 120A(5s)

- Short Circuit Current 600A
- Charge Methods: Constant Voltage Charge 77°F (25°C)

Cycle use 2.40-2.45VPC

Maximum charging current 3.2A

Temperature compensation -30mV/°C

Standby use 2.23-2.30VPC

Temperature compensation -20mV/°C









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## HP12-46W 12V 8Ah

## 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	38.5	25.7	18.9	14.6	12.1	10.4	9.17	8.25	7.53	6.87	6.33	5.89
1.65	36.2	24.3	17.9	13.9	11.5	9.87	8.71	7.84	7.16	6.54	6.04	5.61
1.70	33.9	22.9	16.9	13.1	10.9	9.34	8.25	7.43	6.80	6.21	5.74	5.34
1.75	31.6	21.5	15.9	12.4	10.2	8.80	7.78	7.02	6.43	5.89	5.44	5.07
1.80	30.3	20.7	15.4	12.0	9.93	8.57	7.59	6.85	6.28	5.75	5.32	4.96

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	68.3	46.0	33.7	26.6	22.3	19.5	17.1	15.4	14.0	12.8	11.8	11.0
1.65	65.4	44.3	32.6	25.7	21.6	18.8	16.6	14.9	13.6	12.4	11.5	10.7
1.70	62.5	42.6	31.4	24.8	20.8	18.2	16.0	14.4	13.2	12.1	11.2	10.4
1.75	59.6	40.8	30.2	23.9	20.1	17.5	15.5	13.9	12.7	11.7	10.8	10.1
1.80	56.7	39.1	29.0	23.0	19.3	16.9	14.9	13.5	12.3	11.3	10.5	9.80

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

# Performance Drawings













