



VISION Rechargeable Products
Sealed Lead Acid Battery

www.vision-batt.com

HPS&HFS Series

High Rate Discharge

The new VISION HPS/HFS series batteries are specially designed for applications where need high power output. By optimum design of battery grids and plate paste formula.

Shenzhen Center power tech co., ltd has more than 20 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

HPS12-90W-XFR 12V90W

(Edition 2014-5)

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 22W to 590W per cell for 15' @ 1.67Vpc
- Six months shelf life at 20°C
- Design life 10 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	6.80Kg	15.0lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77 °F(25°C)
15 min wattage @ 1.67V 90W/cell
- Nominal Capacity 77°F(25°C)
20 hour rate (1.00A, 10.5V) 20.0Ah
- Internal Resistance
Fully Charged battery 77°F(25°C) ≤ 9mOhms
- 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) 280A(5s)
- Short Circuit Current 1700A
- Charge Methods: Constant Voltage Charge 77°F(25°C)
Cycle use 2.40-2.45VPC
Maximum charging current 7A
Temperature compensation -30mV/°C
- Standby use 2.23-2.30VPC
Temperature compensation -20mV/°C



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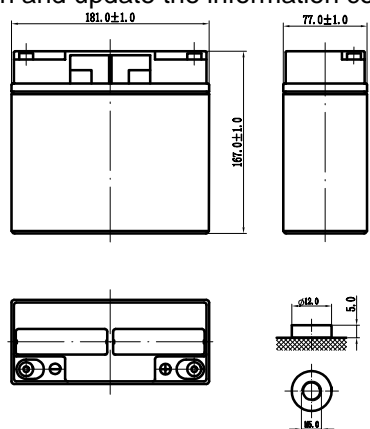
Discharge Data

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	98.6	68.3	53.3	42.0	35.3	30.7	27.2	24.6	22.5	20.4	18.8	17.4
1.67	92.8	64.6	50.5	39.9	33.4	29.2	25.8	23.3	21.4	19.5	17.9	16.6
1.70	86.9	60.9	47.8	37.7	31.6	27.6	24.5	22.1	20.3	18.5	17.0	15.8
1.75	81.0	57.2	45.0	35.5	29.8	26.0	23.1	20.9	19.2	17.5	16.1	15.0
1.80	77.6	55.1	43.4	34.4	28.9	25.3	22.5	20.4	18.7	17.1	15.8	14.6

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	167	116	90.8	72.0	60.7	53.2	46.9	42.2	38.6	35.5	32.9	30.8
1.67	160	112	90.0	69.6	58.7	51.5	45.4	40.9	37.4	34.4	32.0	30.0
1.70	153	107	84.4	67.1	56.7	49.8	44	39.6	36.2	33.4	31.1	29.1
1.75	146	103	81.3	64.7	54.7	48.0	42.5	38.3	35.1	32.3	30.1	28.3
1.80	139	98.6	78.1	62.2	52.7	46.3	41.0	37.0	33.9	31.3	29.2	27.4

All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.

Performance Drawings



Terminal torque: 6.2NM

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