

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

HF12-165W-X 12V 33Ah

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

(Edition Aug 2011)

- Six months shelf life at 20°C
- Design life 10 years







Dimensions and Weight								
	SI Units	English Units						
Length	195mm	7.68inch						
Width	130mm	5.12inch						
Height	155mm	6.10inch						
Total Height	168mm	6.61inch						
Approx. Weight	11.1Kg	24.5lbs						

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)

10 min wattage @1.6V165W/cell 20 hour rate (1.70A, 10.5V) 34.0Ah

Nominal Capacity 77°F (25°C)

10 hour rate (3.30A, 10.8V) 33.0Ah

Internal Resistance

Fully Charged battery 68°F(20°C) 6.2mOhms

Self-Discharge

3% of capacity declined permonth at 20°C (average)

Operating Temperature Range

Discharge -20 $\sim 60^{o} \text{C}$

Charge -10~60°C

Storage -20~60°C

Max. Discharge Current 68°F(20°C) 330A(5s)

■ Charge Methods: Constant Voltage Charge 68°F(20°C)

Cycle use 2.30-2.35VPC

Maximum charging current 9.9A

Temperature compensation -30mV/°C

Standby use 2.23-2.27VPC

Temperature compensation -20mV/°C









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Discharge Data

Constant Current Discharge Data (Amperes at 20°C)												
End Voltage Per cell / V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	135	95.5	73.5	59.5	51.1	45.5	40.2	36.2	33.1	30.2	27.8	25.8
1.65	127	90.3	69.7	56.4	48.5	43.2	38.2	34.4	31.5	28.7	26.5	24.6
1.70	119	85.1	65.8	53.3	45.8	40.8	36.2	32.6	29.9	27.3	25.2	23.4
1.75	1 11	79.9	62.0	50.3	43.2	38.5	34.1	30.8	28.3	25.8	23.9	22.2
1.80	106	76.9	59.8	48.7	42.0	37.5	33.3	30.1	27.6	25.2	23.3	21.7

Constant Power Discharge Data (Watts per cell at 20°C)												
End Voltage Per cell / V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	247	165	125	101	87.0	77.6	69.0	62.6	57.5	53.2	49.7	46.8
1.65	237	159	120	98.0	84.1	75.1	66.8	60.6	55.8	51.7	48.3	45.5
1.70	226	153	116	94.2	81.2	72.6	64.6	58.7	54.1	50.1	46.9	44.3
1.75	216	146	1 11	90.7	78.3	70.0	62.5	56.8	52.3	48.6	45.5	43.0
1.80	205	140	107	87.3	75.4	67.5	60.3	54.8	50.6	47.0	44.1	41.7

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

Performance drawings









