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

HP12-60W 12V12Ah

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 5 years





Dimensions and Weight								
	SI Units	English Units						
Length	151mm	5.94inch						
Width	98mm	3.86inch						
Height	95mm	3.74inch						
Total Height	101mm	3.98inch						
Approx. Weight	3.67Kg	8.09lbs						

Performance Characteristics

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

10 min wattage @1.6V 60W/cell

Nominal Capacity 77°F (25°C)

20 hour rate (0.60A, 10.5V) 12.0Ah

■ Internal Resistance

Fully Charged battery 68°F(20°C) 17mOhms

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 68°F(20°C) 180A(5s)

- Short Circuit Current 710A
- Charge Methods: Constant Voltage Charge 68°F(20°C)

Cycle use 2.30-2.35VPC

Maximum charging current 4.8A

Temperature compensation -30mV/°C

Standby use 2.23-2.27VPC

Temperature compensation -20mV/°C









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HP12-60W 12V 12Ah

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	50.5	35.2	26.7	21.3	18.0	15.8	13.7	12.2	11.0	9.93	9.10	8.41
1.65	47.5	33.3	25.3	20.2	17.1	15.0	13.1	11.6	10.4	9.46	8.68	8.02
1.70	44.5	31.4	23.9	19.1	16.2	14.2	12.4	11.0	9.89	8.98	8.25	7.63
1.75	41.5	29.5	22.5	18.0	15.2	13.4	11.7	10.4	9.35	8.51	7.82	7.24
1.80	39.7	28.4	21.7	17.4	14.8	13.1	11.4	10.1	9.13	8.31	7.64	7.08

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	86.2	60.0	45.6	36.6	31.2	27.5	24.3	21.8	19.9	18.3	16.9	15.9
1.65	82.5	57.8	44.0	35.3	30.1	26.7	23.5	21.1	19.3	17.7	16.5	15.4
1.70	78.9	55.5	42.4	34.1	29.1	25.8	22.7	20.5	18.7	17.2	16.0	15.0
1.75	75.2	53.3	40.8	32.9	28.1	24.9	22.0	19.8	18.1	16.7	15.5	14.5
1.80	71.5	51.0	39.2	31.6	27.0	24.0	21.2	19.1	17.5	16.1	15.0	14.1

Performance Drawings















