



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 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., 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

# HF12-260W-X 12V 55Ah

(Edition Nov 2006)

### 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 890W per cell for 10' @ 1.60Vpc
- Six months shelf life at 20°C
- Design life 10 years



### Dimensions and Weight

	SI Units	English Units
Length	229mm	9.02inch
Width	138mm	5.43inch
Height	208mm	8.19inch
Total Height	213mm	8.39inch
Approx. Weight	17.2Kg	37.9lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
  - 10 min wattage @1.6V 260W/cell
  - 20 hour rate (2.90A, 10.5V) 58.0Ah
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (5.50A, 10.8V) 55.0Ah
- Internal Resistance
  - Fully Charged battery 68°F(20°C) 5.8mOhms
- 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 68°F(20°C) 550A(5s)
- Charge Methods: Constant Voltage Charge 68°F(20°C)
  - Cycle use 14.5-14.7V
  - Maximum charging current 16.5A
  - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
  - Temperature compensation -20mV/°C



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Discharge Data

Constant Current Discharge Data ( Amperes at 20°C)																									
End voltage volts/cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	189	144	113	93.0	81.1	73.1	64.9	58.8	54.0	49.8	46.3	43.5	30.0	23.3	19.3	16.6	12.9	10.7	9.07	7.90	7.03	6.34	5.80	5.03	2.59
1.65V	178	136	107	88.3	76.9	69.3	61.6	55.8	51.4	47.4	44.2	41.5	28.9	22.5	18.7	16.2	12.6	10.5	8.90	7.76	6.90	6.23	5.70	4.94	2.54
1.70V	167	128	102	83.6	72.8	65.6	58.4	53.0	48.8	45.0	42.0	39.5	27.6	21.7	18.2	15.8	12.4	10.3	8.73	7.61	6.78	6.12	5.60	4.85	2.50
1.75V	155	120	95.9	78.9	68.6	61.8	55.1	50.1	46.2	42.7	39.8	37.5	26.4	20.9	17.6	15.4	12.1	10.1	8.55	7.46	6.64	6.01	5.50	4.77	2.45
1.80V	149	115	92.6	76.4	66.7	60.2	53.7	48.8	45.0	41.7	38.9	36.6	25.8	20.4	17.2	15.0	11.8	9.91	8.42	7.36	6.56	5.94	5.44	4.71	2.42

Constant Power Discharge Data ( Watts per cell at 20°C)																									
End voltage volts/cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	352	260	202	163	140	124	111	102	94.3	87.2	81.4	76.5	55.0	44.3	37.0	32.1	25.2	21.0	17.8	15.5	13.7	12.4	11.3	9.80	5.04
1.65V	337	250	194	157	135	120	108	98.3	91.0	84.4	78.9	74.4	53.5	43.1	36.0	31.4	24.7	20.7	17.5	15.2	13.5	12.2	11.1	9.63	4.96
1.70V	322	241	187	152	130	116	104	95.5	88.6	82.1	76.7	72.3	52.1	41.9	35.1	30.6	24.2	20.4	17.2	15.0	13.3	12.0	10.9	9.46	4.87
1.75V	307	231	180	146	126	112	101	92.0	85.3	79.3	74.3	70.2	50.6	40.8	34.1	29.7	23.7	20.1	17.0	14.7	13.1	11.8	10.7	9.30	4.78
1.80V	292	221	173	141	121	108	97.3	89.2	82.9	77.0	72.1	68.1	49.1	39.7	33.2	28.9	23.2	19.8	16.7	14.5	12.9	11.6	10.6	9.19	4.73

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

Performance drawings

