



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 platepaste 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.

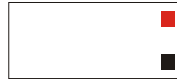
Shenzhen Center Power Tech. Co., Ltd

## HF12-725W-X 12V 170Ah

(Edition Jan 2014)

### 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 1010W 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	530mm	20.9inch
Width	209mm	8.23inch
Height	215mm	8.46inch
Total Height	220mm	8.66inch
Approx. Weight	55.7Kg	122.8lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 10 min wattage @ 1.6V 725W/cell
  - 20 hour rate (9.0A, 10.5V) 180Ah
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (17.0A, 10.8V) 170Ah
- Internal Resistance
  - Fully Charged battery 77°F(25°C) ≤ 2.6mOhms
- 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) 1100A(5s)
- Charge Methods: Constant Voltage Charge 77°F(25°C)
  - Cycle use 2.40-2.45VPC
  - Maximum charging current 51A
  - Temperature compensation -30mV/°C
- Standby use 2.20-2.30VPC
  - Temperature compensation -20mV/°C



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**Discharge Data**

Constant Current Discharge Data ( Amperes at 25°C )											
End Voltage Per cell / V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	400	329	271	237	213	191	174	161	147	136	127
1.65	380	315	260	227	205	185	169	157	143	132	122
1.70	360	300	248	217	197	178	164	153	139	127	118
1.75	339	284	236	208	189	171	158	147	134	122	113
1.80	317	269	224	197	179	163	150	141	128	117	109

Constant Power Discharge Data ( Watts per cell at 25°C )											
End Voltage Per cell / V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	725	590	490	430	390	345	311	285	261	242	225
1.65	704	569	474	416	378	335	302	277	254	235	220
1.70	684	548	457	402	365	324	293	269	247	228	213
1.75	660	527	440	387	352	313	283	260	239	222	207
1.80	624	506	423	373	339	302	273	251	231	214	201

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

