VISION

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., 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

HF12-370W-X 12V 72Ah

(Edition June 2008)

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	350mm	13.8inch
Width	167mm	6.57inch
Height	179mm	7.05inch
Total Height	179mm	7.05inch
Approx. Weight	26.2Kg	57.8lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68°F(20°C)
  - 10 min wattage @1.6V 370W/cell
  - 20 hour rate (3.7A, 10.5V) 74Ah
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (7.20A, 10.8V) 72Ah
- Internal Resistance
  - Fully Charged battery 68°F(20°C) 4.7mOhms
- 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) 750A(5s)
- Charge Methods: Constant Voltage Charge 68°F(20°C)
  - Cycle use 14.5-14.7V
  - Maximum charging current 24A
  - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
  - Temperature compensation -20mV/°C

ISO9001:2000 · 1298-2004-AE-RGC-RvA · MH25860 · G4M19906-9202-E-16

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Discharge Data

Constant Current Discharge Data (Amperes at 20°C)

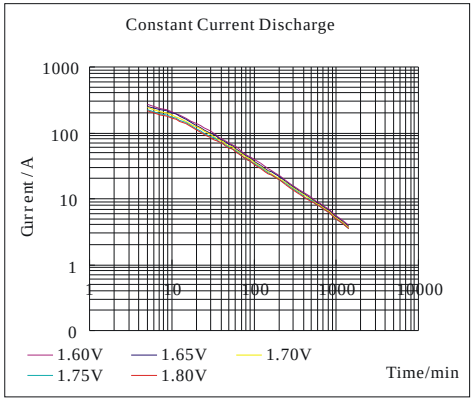
End voltage volts/cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60	269	208	167	136	117	104	92	82.8	74.8	68.8	63.8	59.6	41.0	31.8	26.2	22.4	17.3	14.2	12.2	10.7	9.63	8.82	8.15	6.92	3.52
1.65	253	197	159	129	111	99	87.4	78.7	71.2	65.5	60.8	56.8	39.2	30.4	25.0	21.4	16.6	13.6	11.7	10.4	9.27	8.49	7.84	6.68	3.40
1.70	237	186	150	122	105	93.7	82.8	74.6	67.5	62.2	57.8	54.1	37.3	29.0	23.9	20.5	15.8	13.1	11.2	9.90	8.91	8.15	7.53	6.43	3.29
1.75	221	174	141	115	98.9	88.3	78.1	70.5	64.0	58.9	54.8	51.4	35.5	27.5	22.8	19.6	15.1	12.4	10.7	9.45	8.53	7.80	7.36	6.18	3.17
1.80	212	168	136	111	96	86	76.1	68.8	62.4	57.5	53.5	50.2	34.8	27.0	20.2	19.1	14.8	12.2	10.5	9.27	8.39	7.68	7.20	6.09	3.12

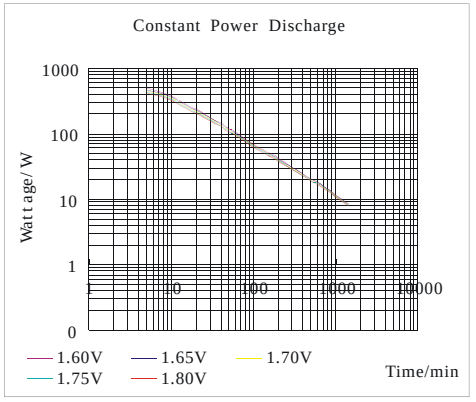
Constant Power Discharge Data (Watts per cell at 20°C)

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
1.60	498	370	287	233	200	178	159	144	132	120	111	102	72.2	57.2	43.6	42.1	33.1	27.7	23.9	21.2	19.2	17.6	16.3	14.0	7.48
1.65	477	356	277	225	193	172	154	140	128	117	107	98.9	70.3	55.7	42.4	41.1	32.3	27.1	23.4	20.7	18.7	17.2	16.0	13.7	7.36
1.70	456	343	267	217	187	167	149	135	124	113	104	96.0	68.3	54.2	41.3	40.0	31.6	26.5	22.9	20.3	18.4	16.8	15.7	13.5	7.24
1.75	434	329	257	209	180	161	144	131	120	110	101	93.5	66.4	52.7	40.2	39.0	30.8	25.8	22.3	19.8	18.0	16.5	15.4	13.2	7.12
1.80	413	315	247	201	173	155	139	127	116	106	98.0	90.7	64.5	51.2	39.1	37.9	30.0	25.2	21.8	19.4	17.6	16.2	15.0	13.0	6.99

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

Performance drawings





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