

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 candeliver up to 40% more power than VISION standard CP/FM series.

Shenzhen Center powertech 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 d 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

HF12-605W-X 12V 135Ah

(Edition Jan 2014)

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

HPS2-605W-X (11) (SM) HIV AND ALTERITOR AND ALTE	

Verv	hiah	nower	output
very	myn	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

	SI Units	English Units					
Length	482±2mm	19.0±2inch					
Width	170±1mm	6.69±1inch					
Height	240±2mm	9.45±2inch					
Total Height	240±2mm	9.45±2inch					
Approx. Weight	44.8Kg	98.8lbs					

Dimensions and Weight

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C) 10 min wattage @1.6V 605W/cell 20 hour rate (7.25A, 10.5V) 145Ah
- Nominal Capacity 77°F(25°C) 10 hour rate (13.5A, 10.8V) 135Ah
- Internal Resistance
 - Fully Charged battery 77°F(25°C) \leq 3.5mOhms
- Self-Discharge

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



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Operating Temperature Range

Standby use 2.20-2.30VPC

Discharge -20~60°C

Charge -10~60°C

Storage -20~60°C

Max. Discharge Current 77°F(25°C) 970A(5s)

Maximum charging current 40A

Cycle use 2.40-2.45VPC

Charge Methods: Constant Voltage Charge 77°F(25°C)

Temperature compensation -30mV/°C

Temperature compensation -20mV/°C



HF12-605W-X 12V 135Ah

Discharge Data

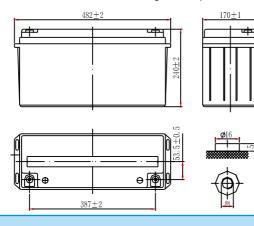
Constant Current Discharge Data (Amperes at 25°C)											
End Voltage Per cell / V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	340	283	234	205	186	163	146	133	121	111	103
1.65	322	268	222	195	177	155	138	126	115	106	98.7
1.70	303	254	210	184	167	147	131	119	109	101	94.1
1.75	285	239	198	174	158	138	124	113	103	95.8	89.2
1.80	274	230	192	169	153	135	121	110	101	93.3	87.2

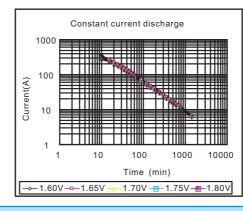
Constant Power Discharge Data (Watts per cell at 25°C)											
End Voltage Per cell / V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	605	505	417	364	329	291	263	241	219	201	186
1.65	583	487	403	352	318	282	255	234	213	196	182
1.70	560	470	389	340	308	273	247	227	207	191	178
1.75	537	452	375	328	297	264	239	220	202	187	174
1.80	515	435	361	316	286	255	231	212	195	181	170

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

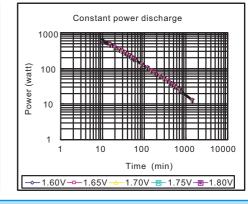
All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.

Performance drawings





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