

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

HP&HF Series

High Rate Discharge

The new LUXURY 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 LUXURY standard CP/FM series.

Luxury system 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 LUXURY 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.



Dimensions and Weight

	<i>SI Units</i>	<i>English Units</i>
Length	195mm	7.68inch
Width	130mm	5.12inch
Height	155mm	6.10inch
Total Height	168mm	6.61inch
Approx. Weight	11.1Kg	24.5lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 10 min wattage @1.6V 165W/cell
 - 20 hour rate (1.70A, 10.5V) 34.0Ah
- Nominal Capacity 77°F(25°C)
 - 10 hour rate (3.30A, 10.8V) 33.0Ah
- Internal Resistance
 - Fully Charged battery 77°F(25°C) ≤ 7.0mOhms
- 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) 330A(5s)
- Charge Methods: Constant Voltage Charge 77°F(25°C)
 - Cycle use 2.40-2.45VPC
 - Maximum charging current 9.9A
 - Temperature compensation -30mV/°C
- Standby use 2.20-2.30VPC
 - Temperature compensation -20mV/°C

HF12-165W-X 12V 33Ah

Discharge Data

Constant Current Discharge Data (Amperes at 25°C)												
End Voltage Per cell / V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	135	95.5	73.5	59.5	51.1	45.5	40.2	36.2	33.1	30.2	27.8	25.8
1.65	127	90.3	69.7	56.4	48.5	43.2	38.2	34.4	31.5	28.7	26.5	24.6
1.70	119	85.1	65.8	53.3	45.8	40.8	36.2	32.6	29.9	27.3	25.2	23.4
1.75	111	79.9	62.0	50.3	43.2	38.5	34.1	30.8	28.3	25.8	23.9	22.2
1.80	106	76.9	59.8	48.7	42.0	37.5	33.3	30.1	27.6	25.2	23.3	21.7

Constant Power Discharge Data (Watts per cell at 25°C)												
End Voltage Per cell / V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	247	165	125	101	87.0	77.6	69.0	62.6	57.5	53.2	49.7	46.8
1.65	237	159	120	98.0	84.1	75.1	66.8	60.6	55.8	51.7	48.3	45.5
1.70	226	153	116	94.2	81.2	72.6	64.6	58.7	54.1	50.1	46.9	44.3
1.75	216	146	111	90.7	78.3	70.0	62.5	56.8	52.3	48.6	45.5	43.0
1.80	205	140	107	87.3	75.4	67.5	60.3	54.8	50.6	47.0	44.1	41.7

(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,Luxury reserves the right to explain and update the information contained hereinto.

Performance drawings

