



VISION Rechargeable Products Sealed Lead Acid Battery

www.vision-batt.com

HFS Series

High Rate Discharge

The new VISION HFS series batteries are specially designed for applications where need high power output. By optimum design of battery grids and plate paste formula, the HFS series can deliver up to 40% more power than VISION standard CP/FM series.

Shenzhen Center Power Tech Co., Ltd has more than 20 year's experience in the manufacturing of VRLA batteries.

SZCPT is one of the largest manufacturers of SLA (or VRLA) batteries in the world, the largest 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

HFS12-540W-X 12V 540W

General Features

- Positive and negative plates in lead-calcium tin alloy.
- Superior energy density.
- Operates at a low internal pressure.
- Gas Recombination.
- Special separator technology.
- A recognized component of UL,IEC,TLC,etc.
- Flame retardant ABS (UL 94-FV0).
- Very high power output for 5 to 15 minutes supply.
- Special design to avoid thermal runaway.
- A covered range from 90W to 850W per cell for 15' @ 1.67Vpc.
- Six months shelf life at 20°C.
- Design life 12+ years at 25°C.
- Recommended loading 1h and below.

Dimensions and Weight

	Metric Units	English Units
Length	340mm	13.4inch
Width	172mm	6.78inch
Height	279mm	11.0inch
Total Height	286.5mm	11.3inch
Approx. Weight	41.5Kg	91.5lbs



Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 15 min wattage @ 1.67VPC 540W/cell
 - 10 hour rate (14.0A, 10.8V) 140Ah
 - 20 hour rate (7.50A, 10.8V) 150Ah
- Torque setting: 12.4NM
- Internal Resistance
 - Fully Charged battery 77°F(25°C) ≤ 3.6mOhms
- 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) 910A(5s)
- Charge Methods: Constant Voltage Charge 77°F(25°C)
 - Cycle use 14.4V-14.7V
 - Maximum charging current 45A
 - Temperature compensation -30mV/°C
- Standby use 13.38V-13.8V
 - Temperature compensation -20mV/°C



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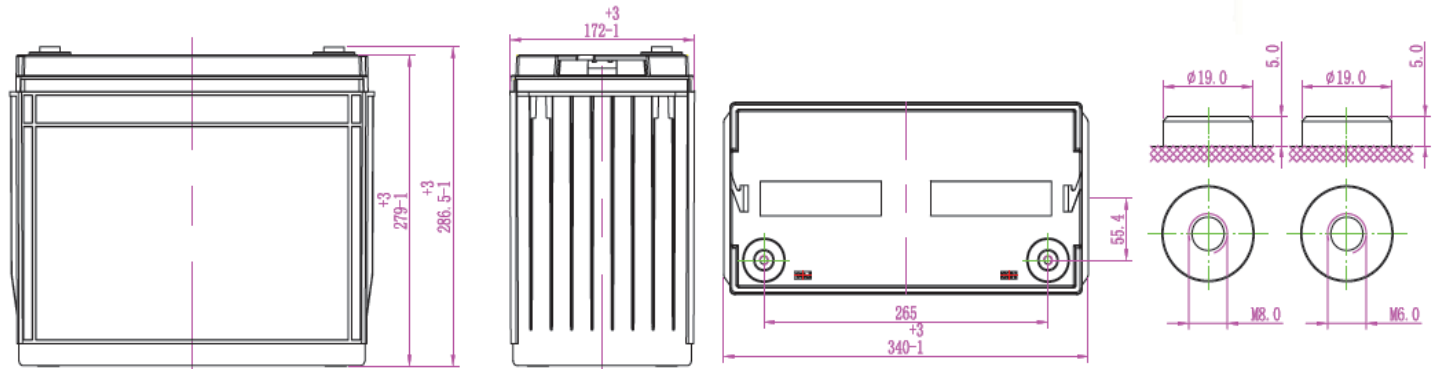
Discharge Data

Constant Current Discharge Date(Ampre at 25°C)									
End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	568	469	358	292	253	217	196	134	103
1.65	552	456	337	281	246	212	188	130	101
1.67	546	450	328	276	244	210	185	128	100
1.70	523	433	318	259	228	198	175	125	99
1.75	509	416	302	245	215	190	169	122	96
1.80	492	403	293	235	206	183	161	119	94

Constant Power Discharge Date (Ampere at 25°C)									
End Voltage Volts/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	1104	887	680	564	468	400	358	260	201
1.65	1078	857	662	547	459	396	350	255	198
1.67	1067	844	655	540	456	394	347	253	197
1.70	1005	790	601	491	427	374	331	245	192
1.75	946	736	568	473	412	360	323	237	188
1.80	906	714	534	455	397	347	311	229	184

(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.

Performance drawings



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