

Specification

Maximum Discharge Current

Operating Temperature Range

Nominal Operating Temperature Range

Recommended Maximum Charging

Equalization and Cycle Service

Cells Per Unit

Capacity

Weight

Voltage Per Unit

Internal Resistance

Float Charging Voltage

Current Limit

Self Discharge

Container Material

Terminal

★ 6-EVF-135B ► 12V135Ah

EV series is specially designed for frequent discharge deep cycle, the series battery offers reliable performance in high load situations and could provide competitive cycle performance. Suitable for Electric Vehicle and Golf cart; Industrial equipment, Floor machines, Marine, RV, and no- idle solutions.

135Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)

Approx. 40 kg(88 lbs) - Tolerance±3%

Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F)

13.5 to 13.8 VDC/unit Average at 25°C (77°F)

14.4 to 15.0 VDC/unit Average at 25°C (77°F)

temperatures the time interval will be shorter.

ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

Battery can be stored for more than 6 months at 25°C (77°

F). Please charge batteries before using. For higher

Storage: -15°C~40°C (5°F~104°F)

car terminal and M8 nut & bolt

6

12

36A

1200A (5sec)

Approx. 4.5mΩ

25°C±3°C (77°F±5°F)



Certified by ISO 9001, ISO14001 and OHSAS18001.

Dimensions : Overall Height (H) Length (L) Width (W) Container height (h) Unit: mm 307±3 340 + 2.5282±2.5 173±1.5 unit:mm 340±2.5 173 + 1Д д [lolo Terminal 82±2. $\bigcirc \circ$ \odot

Constant Current Discharge Characteristics				Unit:A ((25°C, 77°F)			
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	142.3	104.7	85.7	37.0	24.9	16.8	13.84	7.38
1.67	139.7	102.8	81.6	35.9	24.3	16.7	13.82	7.36
1.7	137.8	101.6	80.6	35.7	24.2	16.7	13.80	7.34
1.75	133.0	98.8	78.1	35.0	23.8	16.5	13.72	7.27
1.8	126.8	94.6	76.4	33.7	23.1	16.2	13.50	7.16
1.85	118.6	87.9	70.4	31.2	21.5	15.4	12.97	6.92
Constant Power Discharge Characteristics Unit:W (25°C,77°F)								
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	258.2	193.5	159.7	70.5	48.1	32.8	27.07	14.53
1.67V	251.2	188.2	152.2	68.4	47.1	32.6	27.02	14.45
1.7V	243.7	184.3	150.8	67.9	46.9	32.4	26.95	14.40
1.75V	230.1	178.4	147.1	66.6	46.3	32.0	26.72	14.27
1.8V	213.1	174.7	145.0	64.3	45.1	31.5	26.31	14.09

Ratings presented herein are subject to revision without notice. Please refer to www.henglivn.com to confirm the latest version.

6-EVF-135B

12V135Ah

(%)

Retained Capacity

-20

-4

-10

14

Charging characteristic curve



Relationship of OCV And State of Charge(20℃)



Capacity Retention Characteristic



Charging Procedures

Application	Cł	May Charge Current			
Application	Temperature	Set Point	Allowable Range	Max.charge current	
Cycle Use	25° ℃(77°F)	2.45	2.40~2.50	0.20	
Standby	25 ℃(77°F)	2.275	2.25~2.30	0.30	

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40 ℃	102%
25 ℃	100%
0 °C	85%
-15 °C	65%



32 50 68 Ambient Temperature

10

20

30

86

40°C

104°F

0





Terminal Voltage (V) and Discharge Time

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%

Temperature Effects on Capacity