

Powered by



# EVH 12150X3 ▶ 12V 15Ah

EVH 12150x3 (3<sup>rd</sup> generation) is designed specially with increase cycle performance and reliability from previous generations in electric vehicles application. It has high cycling life, high efficiency and long service life.



CSB-manufactured **VRLA** (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

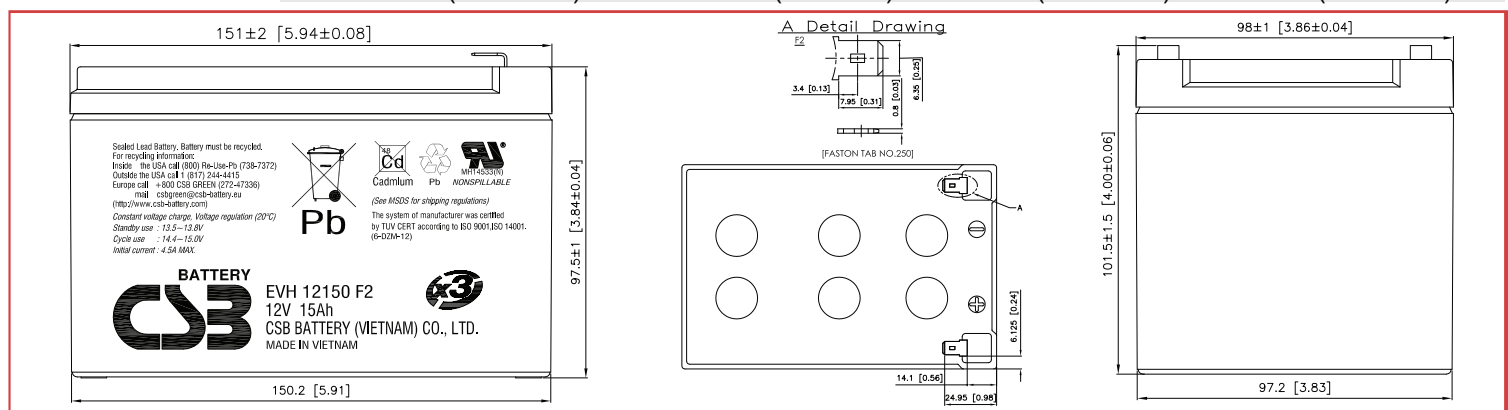
## ► Specification

|                                            |                                                                                                                                                                     |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cells Per Unit                             | 6                                                                                                                                                                   |
| Voltage Per Unit                           | 12                                                                                                                                                                  |
| Capacity                                   | 15Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)                                                                                                                    |
| Weight                                     | Approx. 4.6 kg (10.14 lbs)                                                                                                                                          |
| Maximum Discharge Current                  | 180A(5sec)                                                                                                                                                          |
| Internal Resistance                        | Approx. 11 mΩ                                                                                                                                                       |
| Operating Temperature Range                | Discharge: -15°C~50°C ( 5°F~122°F)<br>Charge: -15 °C~40°C ( 5°F~104°F)<br>Storage: -15°C~40°C ( 5°F~104°F)                                                          |
| Nominal Operating Temperature Range        | 25°C±3°C (77°F±5°F)                                                                                                                                                 |
| Float Charging Voltage                     | 13.5 to 13.8 VDC/unit Average at 25°C (77°F)                                                                                                                        |
| Recommended Maximum Charging Current Limit | 4.5A                                                                                                                                                                |
| Equalization and Cycle Service             | 14.4 to 15.0 VDC/unit Average at 25°C (77°F)                                                                                                                        |
| Self Discharge                             | CSB Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter. |
| Terminal                                   | F2-Faston Tab 250                                                                                                                                                   |
| Container Material                         | ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.                                                                                |

## ► Dimensions :

Unit: mm (inch)

| Overall Height (H)    | Container height (h) | Length (L)        | Width (W)        |
|-----------------------|----------------------|-------------------|------------------|
| 101.8±1.5 (4.01±0.06) | 97.5±1 (3.8±0.04)    | 151±2 (5.94±0.08) | 98±1 (3.86±0.04) |



## Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

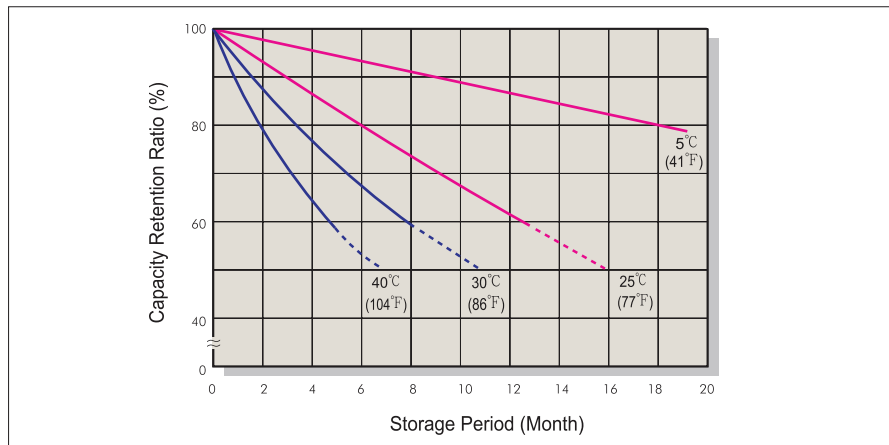
| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 34.6  | 20.0  | 11.2  | 7.85  | 6.18 | 4.33 | 2.74 | 1.79 | 1.43 | 0.78 |
| 1.67V    | 34.3  | 19.9  | 11.0  | 7.79  | 6.11 | 4.25 | 2.73 | 1.78 | 1.42 | 0.77 |
| 1.70V    | 34.2  | 19.8  | 10.9  | 7.73  | 6.03 | 4.23 | 2.72 | 1.77 | 1.41 | 0.77 |
| 1.75V    | 33.3  | 19.5  | 10.8  | 7.66  | 6.00 | 4.17 | 2.71 | 1.76 | 1.39 | 0.76 |
| 1.80V    | 31.9  | 19.0  | 10.7  | 7.50  | 5.83 | 4.08 | 2.64 | 1.74 | 1.38 | 0.75 |
| 1.85V    | 30.1  | 18.2  | 10.4  | 7.38  | 5.72 | 3.94 | 2.56 | 1.68 | 1.33 | 0.72 |

## Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

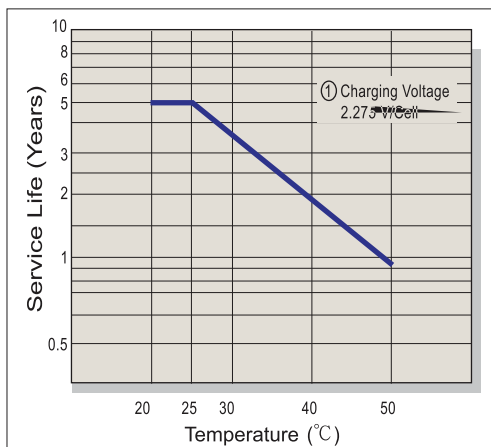
| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 380   | 221   | 129   | 91.4  | 71.0 | 49.6 | 31.9 | 21.0 | 17.1 | 8.98 |
| 1.67V    | 378   | 220   | 128   | 90.8  | 70.5 | 49.2 | 31.7 | 20.9 | 17.0 | 8.96 |
| 1.70V    | 376   | 218   | 127   | 89.9  | 70.0 | 49.0 | 31.5 | 20.8 | 16.9 | 8.92 |
| 1.75V    | 368   | 215   | 125   | 88.7  | 69.4 | 48.8 | 31.1 | 20.7 | 16.8 | 8.82 |
| 1.80V    | 359   | 211   | 123   | 87.3  | 68.6 | 47.9 | 30.7 | 20.5 | 16.7 | 8.74 |
| 1.85V    | 340   | 206   | 121   | 85.3  | 66.6 | 46.7 | 29.6 | 19.9 | 16.4 | 8.52 |

Ratings presented herein are subject to revision without notice. Please refer to [www.csb-battery.com](http://www.csb-battery.com) to confirm the latest version.

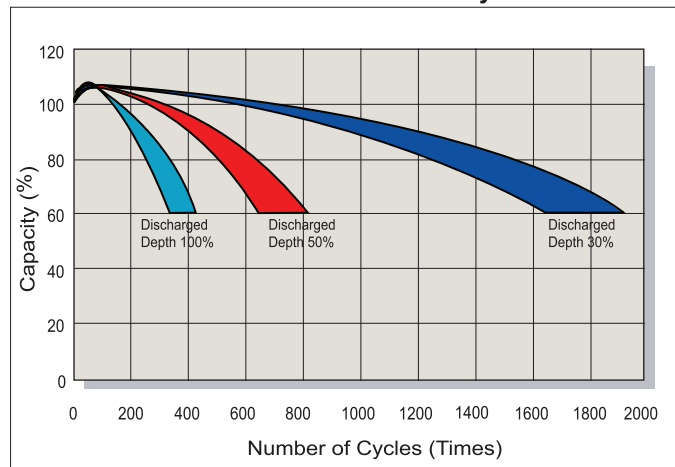
## Capacity Retention Characteristic



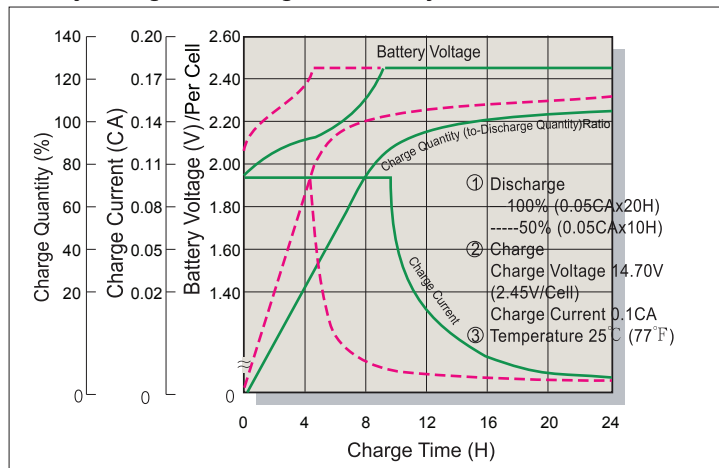
## Trickle (or Float) Service Life



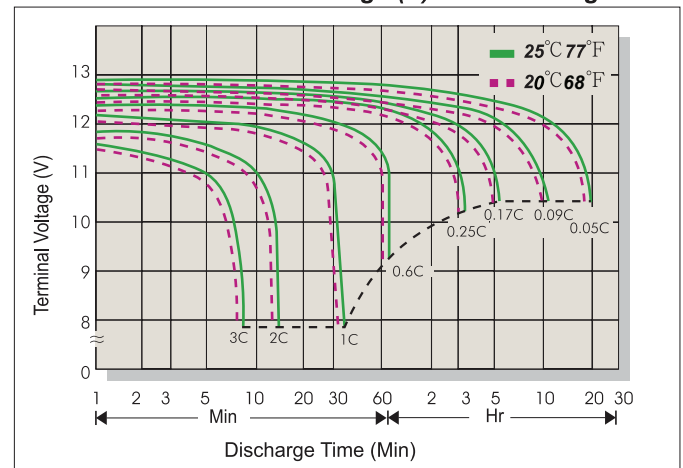
## Series Cycle Service Life



## Battery Voltage and Charge Time for Cycle Use



## Terminal Voltage (V) and Discharge Time



## Charging Procedures

| Application | Charge Voltage(V/Cell) |           |                 | Max.Charge Current |
|-------------|------------------------|-----------|-----------------|--------------------|
|             | Temperature            | Set Point | Allowable Range |                    |
| Cycle Use   | 25°C(77°F)             | 2.45      | 2.40~2.50       | 0.3C               |
| Standby     | 25°C(77°F)             | 2.275     | 2.25~2.30       |                    |

## Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/Cell | 1.75     | 1.70          | 1.60          | 1.30     |
|--------------------------------|----------|---------------|---------------|----------|
| Discharge Current(A)           | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |

Sales Office URL: [WWW.CSB-BATTERY.COM](http://WWW.CSB-BATTERY.COM)

### GLOBAL HQ CSB BATTERY CO., LTD. (TAIWAN)

Tel : +886-2-2880-5600  
Fax : +886-2-2888-3300  
mail : [service@csb-battery.com.tw](mailto:service@csb-battery.com.tw)

### BEIJING OFFICE. (CHINA)

CSB BATTERY TECHNOLOGIES (BEIJING) CO., LTD.  
Tel : +86-10-5820-5336/5338  
Fax : +86-10-58203053  
mail : [chinasls@csb-battery.com](mailto:chinasls@csb-battery.com)

### AMERICA HQ

CSB BATTERY TECHNOLOGIES INC. (U.S.A)  
Tel : +1-817-244-7777/1-(800)3-CSB-USA(272872)  
Fax : +1-817-244-4445  
mail : [csb@csb-battery.com](mailto:csb@csb-battery.com)

### SHANGHAI OFFICE. (CHINA)

CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.  
Tel : +86-21-5046-1622/5046-0833  
Fax : +86-21-5064-1046  
mail : [chinasls@csb-battery.com](mailto:chinasls@csb-battery.com)

### EUROPE HQ

CSB Battery Europe BV.  
Tel : +31(0)-180-418-140  
Fax : +31(0)-180-418-327  
mail : [eurosales@csb-battery.eu](mailto:eurosales@csb-battery.eu)

### SHENZHEN OFFICE. (CHINA)

CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.  
Tel : +86-755-8831-6488/6396/6356  
Fax : +86-755-8831-6548  
mail : [she@csb-battery.com.cn](mailto:she@csb-battery.com.cn)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CSB:

[EVH12150F2X3](#)